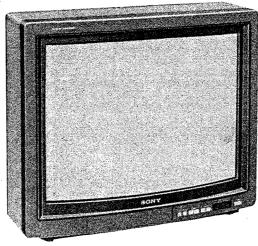
# SERVICE MANUAL

US Model

Chassis No. SCC-595B-A



P2B CHASSIS

December, 1984

### **SPECIFICATIONS**

Television system

American TV standards

Channel coverage

VHF: 2-13 UHF: 14-69

Cable TV: 1-125

Picture tube

Microblack Trinitron

25-inch picture measured

diagonally

114-degree deflection

**Antenna** 

75-ohm external antenna terminal

Inputs

for VHF/UHF/CATV VIDEO 1, 3 INPUT (phono jacks)

Video: 1 V p-p, 75 ohms

unbalanced, sync negative

Audio: 408 mVrms (100% modula-

tion, 47 kilohms)

VIDEO 2 IN AV (AV jack)

Video: 1 Vp-p, 75 ohms unbalanc-

ed, sync negative

Audio: 408 mVrms (100% modula-

tion, 47 kilohms)

RGB MULTI INPUT (See next page.)

CONTROL IN (minijack)

5V p-p

75-ohm external antenna terminal

for VHF/UHF/CATV

AUX 75-ohm auxiliary antenna

terminal

FROM TV STAND connector for the

optional SU-171 TV stand

**Outputs** 

TV OUT (AV jack)

Video: 1 Vp-p, 75 ohms unbalanc-

ed, sync negative

Audio: 408mVrms (100% modulation, 5 kilohms)

MONITOR OUTPUT (phono jack)

Video: 1 Vp-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100%

modulation, 5 kilohms) **CONTROL OUT (minijack)** 

5V p-p

PHONES (stereo minijack)

Accepts 8-ohm headphones

**SPEAKER** 

Accepts speakers of 8 ohms

TO CONVERTER terminal

Power requirements

120V AC, 60 Hz

Power consumption

185 W (max.)

1.5 W (in standby condition)

**Dimensions** 

635 × 547 × 478 mm (25 × 215/8 × 187/8 inches) without speakers 700 × 547 × 478 mm (275/8 × 215/8

× 187/8 inches) including speakers

45 kg (991b 4oz) Weight

(without speakers)

Continued on page 2 —

MICROFILM

TRINITRON® COLOR TV SONY



3652

# **RGB MULTI INPUT (34-pin plug)**

Pin No.	Signal assignment
1	+5 V power supply
2	+5 V power supply
3	Audio (R) input ground
4	Ground
5	Remote control ground
5	
6	Composite video output ground
7	Audio (L) input ground
8*, 9*, 10*	Ground
11	Ground
12*, 13*	Ground
15*	Ground
16	Ground
20	Audio (R) input
21	Mode select
23	Composite video output
24	Audio(L) input
25	Red input
26	Green input
27	Blue input
29*	Blanking input
30*	H. sync or composite sync
31 *	V. sync
33	RGB/NORMAL mode select
34	Audio select
14, 17, 18, 19, 22, 28, 32	Not in use

<sup>\*</sup>For No. 8 and 25, 9 and 26, 10 and 27, 12 and 29, 13 and 30, or 15 and 31 connections, use a twisted-pair lead.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

# SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK 

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# TABLE OF CONTENTS

Sec	tion	<u>Title</u> <u> </u>	Page Sec	tion	<u>Title</u>	Page
1.	OUT	LINE		5-4.	Printed Wiring Boards	
	1-1	Location of Controls	. 6		D Board	55
	1-2.				A Board	57
	1-3.				GA Board	58
		Applications with Other			GB Board	58
		Optional Equipment	. 11		X Board	59
	1-5	Connections			U Board	60
	10.				T <sub>1</sub> Board	62
2.	DISA	ASSEMBLY			T <sub>2</sub> Board	62
•			4.0		T <sub>4</sub> Board	62
		Back Cover Removal	•		XA Board	62
	2-2.	Picture Tube Removal	. 13		Z Board	62
					N Board	62
3.	SET	UP ADJUSTMENTS			P Board	63
	3-1.	Beam Landing	. 14		M Board	63
	3-2.	Convergence	. 15		C Board	64
	3-3.	White Balance	. 18	5-5.	Semiconductors	65
	3-4.	Focus Adjustment	. 18			
			6.	EXP	LODED VIEWS	
4.	CIR	CUIT ADJUSTMENTS		6-1	Back Cover	
	4-1.	A Board Adjustment	. 19		CRT	
		X Board Adjustment			Chassis	
		D Board Adjustment		<b>0 0</b> .	Citabbis	
		220111111111111111111111111111111111111	7.	FIF	CTRICAL PARTS LIST	69
5.	DIA	GRAMS	,.			
			21		RM-724 REMOTE COMMANDER	
	5-1.	Circuit Boards Location			APM-X3U SPEAKER SYSTEM	97
	5-2.					
	J-3.	Schematic Diagram	. 40			

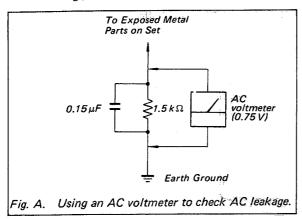
# SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
   Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has

the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.

- 8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- 9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



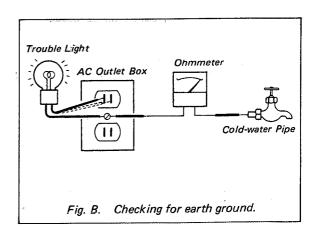
### **LEAKAGE TEST**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

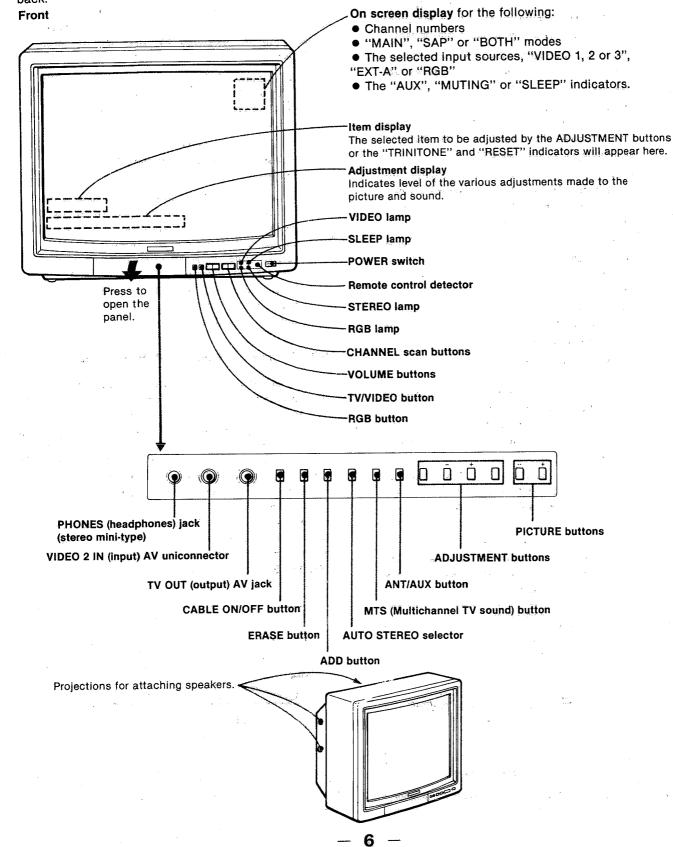


# SECTION 1 OUTLINE

### 1-1. LOCATION OF CONTROLS

For details on the use of each control, refer to the pages indicated in brackets.

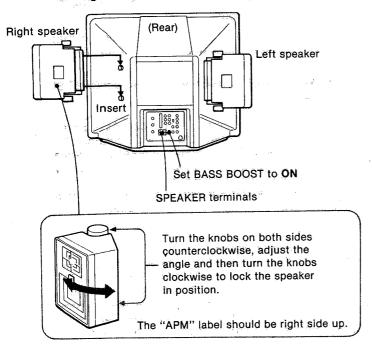
See page 10 for the location of jacks and controls on the back.



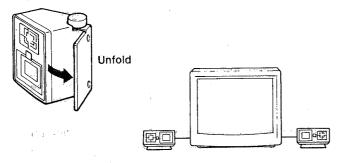
### 1-2. SET-UP SPEAKERS

#### **Placement**

# Attaching the speakers to the TV



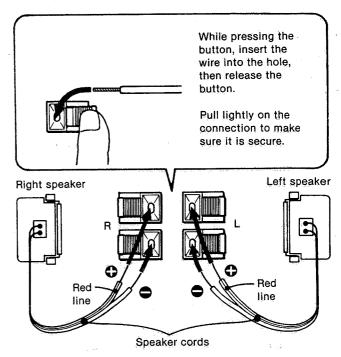
If desired, the speakers can be placed separately from the TV by unfolding the stand.



Adjust the angle of the speakers, for best sound production.

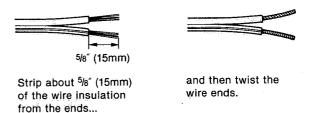
### Connection

The speaker cord marked with a red line should be connected to the  $\oplus$  (red) terminal and the cord unmarked to the  $\ominus$  (black) terminal for correct in-phase operation.



If desired, larger 8-ohm speakers can be used as long as they are rated at 8-ohm impedance.

Expose and twist the wire ends of the cords of your speakers as illustrated below, and make the correct  $\oplus$  connections. For large speakers, set BASS BOOST switch on the TV to "OFF" to prevent excessive bass.

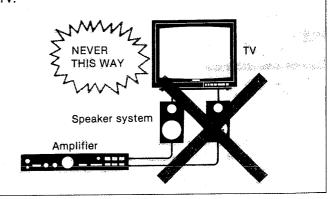


### Caution

- Be sure to use speakers that are rated at 8-ohm impedance with normal power holding capacity of more than 7W for the KV-20XBR and of more than 10W for the KV-25XBR.
- Make sure that none of the wire strands stick out, making contact with the neighboring speaker terminals.
- If you have connected a pair of speakers other than the supplied speakers, make sure to place the TV set at a distance away from the speakers so that it will not be affected by the speaker magnets. If a temporary proximity to magnets should cause portions of the picture to have poor color, turn the POWER off, and after about 10 minutes, turn it on again.

Speakers with low magnetic flux leakage such as the SS-X1A, SS-X2A, and SS-X10A speaker systems (optional) may be placed near the set.

 Never connect an amplifier and this TV simultaneously to the speakers as this may damage the TV



#### Preparation

Make sure the following are properly set.

• On-screen "VIDEO 1, 2 or 3", "EXT-A" or "RGB"\* indicators and the RGB or VIDEO lamp should be off. (Press TV/VIDEO button or RGB button as many times as necessary until they go out.)

• AUTO STEREO selector should be set to ON (depressed).

Depending on the channel to be viewed, check the following and change as necessary.

CABLE ON/OFF button

For VHF and UHF channels, set to OFF ....

On-screen "AUX"\* indicator

(Press ANT/AUX button to change as necessary.) For VHF, UHF and regular cable TV channels: The indicator should be off.

For pay cable TV channels:

The indicator should be displayed.

\*The displays, "VIDEO" "EXT-A", "RGB" or "AUX" indicate that signals fed in through the VIDEO 1/3 INPUT jacks, VIDEO 2 IN AV uniconnector, the external audio jacks, the RGB MULTI INPUT connector or through the AUX terminals are being received.

### 1 Press POWER to turn on the TV.

The channel number will be displayed on the screen and the SLEEP lamp will light up for several seconds.

2 Select channels in one of the following two ways.

• Press the numeral(s) of the channel and then press

Ex. To select channel 6, press 6 and then ENTER. To select channel 125, press 1, 2, 5 and then ENTER.

If you pressed a wrong numeral, wait for a few seconds and it will disappear. Then try again.

• Press CH "+" for higher-numbered channels and "-" for lower-numbered channels. Preset channels will appear in sequence. (For presetting desired channels, see page 9.)

The channel display will remain on the screen for a few seconds. To keep the display on the screen, press DISPLAY.

3 Adjust the volume and picture to your preference, if necessary.

Press VOL "+" to increase volume, or "-" to decrease it.

Press PICTURE "+" to increase picture contrast, or "-" to decrease it.



If the picture rolls vertically, turn V HOLD control on the rear panel until the picture stabilizes.



To mute the sound immediately, press MUTING. The "MUTING" display will appear and remain on the screen. Press it again to restore the sound to its previously-set level or press VOLUME +.

To turn off the set, press POWER again.

To have the set turn off automatically after one hour, press SLEEP. The "SLEEP" display will appear on the screen a few seconds and the SLEEP lamp on the TV will remain lit for one hour.

To cancel the sleep timer, press SLEEP again so that the "SLEEP" display disappears, or turn off the TV.

# LISTENING TO MULTICHANNEL TV SOUND(MTS) BROADCASTS

In the years to come, an increasing number of programs will be broadcast in stereo. Called Multichannel TV Sound or MTS, the new technology will greatly enhance TV viewing by bringing you programs with high fidelity stereo sound. MTS also provides for an extra channel called the Second Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmissions or some other sound track.

To receive a stereo program

Normally set the AUTO STEREO selector to ON (depressed). In this position, the STEREO lamp on the TV will light up whenever a stereo broadcast is received. To listen to the stereo sound, select the MAIN mode with the MTS button so that the on-screen MAIN indicator appears. The stereo sound will be heard from the left and right speakers.

Every push on the MTS button changes the indicator below the channel number as follows:

Select the appropriate mode according to various possible incoming broadcast signals. You can preset the mode while the indicators are yellow so that the selected sound will be heard automatically when the MTS program begins. The indicators turn green when a MTS program is actually being received.

When there is a SAP (Second Audio Program) broadcast Select the SAP mode so that the SAP indicator will be displayed and only the SAP sound will be heard from both speakers.

### To listen to both MAIN and SAP broadcasts

Select the BOTH mode so that the BOTH indicator is displayed. The MAIN and SAP sounds will come out from the left and right speakers respectively.

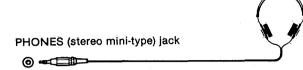
The MAIN sound becomes monaural (mixed) even if it is a stereo broadcast, as the sound comes only from the left speaker.

### Notes

- The selected mode will be retained even after the power has once been turned off.
- There may be cases of stereo broadcasts where excessive "noise" will be heard due to a weak incoming signal. By switching the AUTO STEREO selector to OFF and returning to a monaural mode, the noise should be eliminated.

Use of headphones

For private listening of sound, connect a pair of 8-ohm headphones (optional) to the PHONES jack. The sound from the speakers will be cut off automatically.



If the plug of your headphones is a stereo phone-type plug, use the optional Sony PC-33 plug adaptor.



An earphone can also be connected to listen to the monaural (left channel) sound.

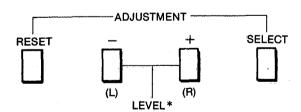
# ADDITIONAL PICTURE AND SOUND ADJUST-MENTS

(Hue: Color: Brightness: Sharpness: Treble: Bass: Balance)

Additional picture and sound adjustments besides the adjustments made by the PICTURE and VOL (volume) buttons can be made as follows although your TV comes with its picture and sound preset at the factory for optimum performance.

The adjustments made can be cleared and the factory preset levels will be restored at once when the **RESET button** is pressed. (A "RESET" indicator will appear for a few seconds.)

Controls are inside the front panel.



- \*"LEVEL" is printed above the buttons on the KV-20XBR.
- 1 Press SELECT button consecutively until the onscreen display of the item you desire to adjust appears.

The display will change as follows:

HUE → COLOR → BRIGHT → SHARP → TREBLE → BASS → BALANCE → back to HUE

The display will disappear after a few seconds but will appear again when the next step is taken.

2 Press LEVEL +(R)/-(L) button to adjust the selected item.

	Selected item	-/(L) Left button	+/(R) button
WENT	HUE	Skin tones become purplish	Skin tones become greenish
ADJUSTMENT	COLOR	For less color intensity	For more color intensity
	BRIGHT	For less brightness	For more brightness
PICTURE	SHARP	For less sharpness	For more sharpness
L	TREBLE	To decrease treble response	To increase treble response
STMEN	BASS	To decrease bass response	To increase bass response
SOUND ADJUSTMENT	BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

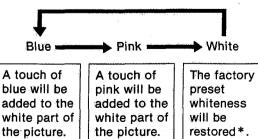
### On-screen color-bar displays

When any of the above adjustments are made, a colored segmented bar appears on the screen to indicate the appropriate setting level.

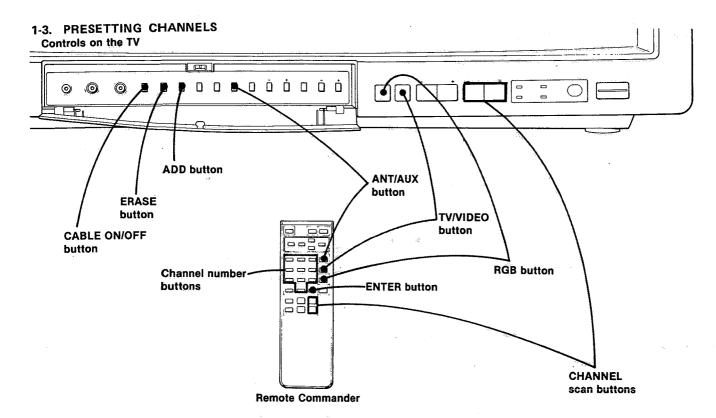
- The HUE setting is indicated by the ratio of the red (left) and green (right) segments.
- The COLOR level is indicated by the number of red segments.
- The BRIGHT, SHARP, TREBLE and BASS levels are indicated by the number of green segments.
- The stereo BALANCE is indicated by the ratio of the green (left) and red (right) segments.
- While the VOL or PICTURE button is pressed, the number of green segments show the sound or picture level.

# TRINITONE adjustment

Usually color picture tubes are manufactured with a fixed color temperature (tint) that determines the "warmness (reddish)" or "coolness (bluish)" of the picture it produces. With Sony's Trinitone feature, you can adjust the tint of the picture to your own color preference. The adjustment is made using the color white as reference. When you press the TRINITONE button, a "WHITE" indicator will appear on the screen. Each consecutive press of the TRINITONE button will change the color of the indicator as follows:



\*The TRINITONE adjustment will return to its factorypreset level at once when the RESET button is pressed.



Receivable channels of your set are:

VHF: 2-13 UHF: 14-69 CATV: 1-125

By adding and erasing channels, you can preset your TV so that only the desired channels appear in sequence when the CHANNEL +/- are pressed.

### **PREPARATION**

- 1 Turn on TV.
- 2 Make sure the following are properly set.

On-screen "VIDEO 1, 2 or 3", "EXT-A" or "RGB" indicators and the RGB or VIDEO lamp should be off. (Press TV/VIDEO button or RGB button as necessary until they go out.)

- 3 According to the channel to be added or erased, check the following and make the necessary changes if any.
  - CABLE ON/OFF button

For VHF and UHF channels, set to OFF II. For cable TV channels, set to ON II.

On-screen "AUX" indicator

(Press ANT/AUX button as necessary.)

For VHF, UHF and regular cable TV channels:

The indicator should be off.

For pay cable TV channels:

The indicator should be displayed.

### **ADDING CHANNELS**

- 1 Select the channel to be added by pressing the channel number buttons and then ENTER.
- 2 Press ADD.

A "+" indication will appear on the left of the channel display on the screen, indicating that the channel will appear in the proper numerical sequence when you press CHANNEL +/-.

Repeat steps 1 and 2 for other channels to be added.

## **ERASING CHANNELS**

- 1 Select the channel to be erased.
- 2 Press ERASE.

A "-" indication will appear on the left of the channel display on the screen, indicating that the channel has been erased. When CHANNEL +/- are pressed, you will see that the channel is skipped over in the numerical sequence.

Repeat steps 1 and 2 for other channels to be erased. To add erased channels again, follow the steps in "ADDING CHANNELS".

### Note

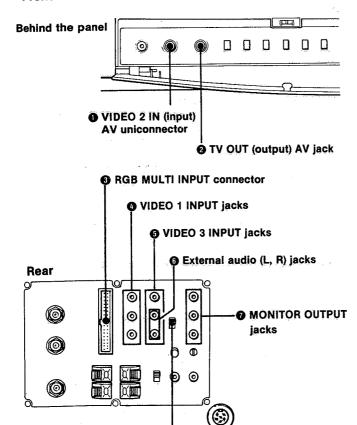
You cannot erase a VHF or UHF channel from the memory and retain a cable TV channel which has the same number, or vice versa. If either a VHF/UHF channel or a cable TV channel with the same number is to be kept in the memory, do not erase the number.

# 1-4. APPLICATIONS WITH OTHER **OPTIONAL EQUIPMENT**

This unit is equipped with various input/output jacks and terminals for your desired equipment to be connected.

For details on the various optional connecting cables to be used, see "OPTIONAL AUDIO/VIDEO CONNECTING CABLES" on page 11.

#### **Front**



# • VIDEO 2 IN (input) AV uniconnector (AV jack)

Connect to the video and audio output jacks of a video cassette recorder or microcomputer. Video and audio signals are transmitted simultaneously.

VIDEO 3/EXT(external)-AUDIO selector

### 2 TV OUT (output) jack (AV jack)

Connect to the video and audio input jacks of a video cassette recorder to record the output of the TV's builtin tuner. The TV tuner output will always be supplied even while other input signals are being viewed on the screen.

# To record a TV program while viewing another video

- 1 Select the TV channel you desire to record.
- 2 Start recording on the VCR.
- 3 Press either TV/VIDEO button or RGB button to select the desired source to be displayed.

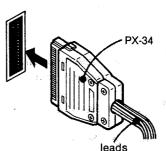
### Note

- The TV channel (and therefore the output of this jack) will change if you press the channel number or CHANNEL scan buttons even while the on-screen "RGB" indicator or RGB lamp is lit.
- The TV channel cannot be changed when the on-screen "VIDEO" indicator or VIDEO lamp is lit.

# **3** RGB MULTI INPUT connector (34-pin jack)

This connector allows direct RGB hook-up to a microcomputer having RGB output.

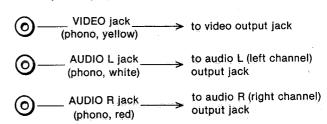
When connecting the microcomputer, use a connecting cable with a 34-pin plug that will match the RGB output of the equipment to the pin assignment of this connector designated on page 19.



To connect a cable with loose signal leads instead of a plug, use an optional PX-34 RGB multi connector. For details on the arrangement and the connection of the leads, read the instruction manual of the PX-34.

### VIDEO 1 INPUT jacks O VIDEO 3 INPUT jacks

Connect to the video and audio output jacks of a VCR\*, video disc player, etc.



\*You will achieve better picture and sound quality than by connecting the VCR only to the antenna terminal.

### External audio (L/R) jacks

An external audio source can be connected to these jacks to be combined with the picture of the selected TV program. Connect to the audio/line output of the audio source.

To view FM simulcasted programs, see page 16.

### MONITOR OUTPUT jacks (phono type)

Connect to the video and audio input jacks of a video cassette recorder or color monitor. Either the TV or VCR signal selected by the TV/VIDEO button is supplied. To record only the sound, connect the audio input jacks of a tape recorder to the AUDIO L and R Jacks with a connecting cable such as the optional RK-74A.

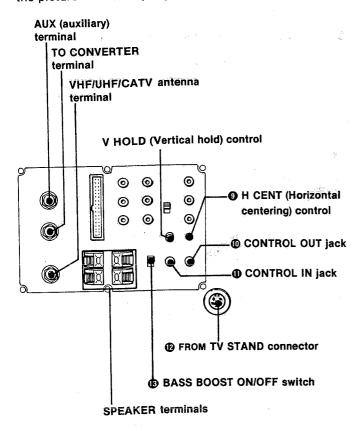
### Note

The RGB signals are not supplied (and therefore will not be recorded on the connected VCR) from these jacks even when the RGB signals are displayed on the screen.

# **❸ VIDEO 3/EXT(external)-AUDIO selector**

If you have connected a VCR, video disc player, etc., to the VIDEO 3 INPUT jacks, set to "VIDEO 3".

If you desire to mix the sound of the external audio source connected to the © External audio jacks with the picture of the TV program, set to "EXT-AUDIO"



# H CENT (horizontal centering) control

Usually keep this control at the center detent position. If the display of the equipment connected to the § RGB MULTI INPUT connector is shifted off center to the left side or right side of the screen, turn this control until the display is centered.

# 10 CONTROL IN/OUT jacks

These jacks are for connecting a future audio or video product also equipped with similar CONTROL IN or OUT jacks for the expansion of your audio-video system.

# @ FROM TV STAND connector (6-pin DIN)

Connect the optional SU-171 TV stand which will enable you to turn on and off the power, adjust the volume, and select the channel of this TV with foot pedals.

# ® BASS BOOST ON/OFF switch

When the supplied side-mounting speakers are used, set this switch to ON to enhance the bass sound. When a larger speaker system is used, set this switch to OFF to prevent excessive bass.

# 1-5. CONNECTIONS OPTIONAL AUDIO/VIDEO CONNECTING CABLES

The optional connecting cables to be used for connecting other equipment depend upon what type of audio and video jacks the equipment you desire to connect has. The following charts will help you choose which cable you should use.

# Cables to be connected to the VIDEO 1 and 3 INPUT jacks

The type of audio and video jacks of the equipment to be connected.		Connec	ting cable to t	oe used
Video (phono-type)	Audio (L, R) (phono-type)		VMC-2P3	
Video (phono-type)	Audio (mini-type) ©		VMC-1MP3 (1 -2MP3 (2m)	m),
Video (phono-type)	Audio (phono-type)		VMC-609MS	

# Cables to be connected to the VIDEO 2 IN and TV OUT (AV type) jacks

The type of audio and video jacks of the equipment to be connected.		Connecting cable to be used
Video A (phono-type) (I	Audio (L, R) phono-type)	VMC-610S
	Audio phono-type) ©	*The PC-21 is supplied to the cable for a mini-type audio input.

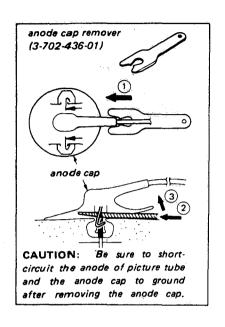
The following are few examples of the possible connections.

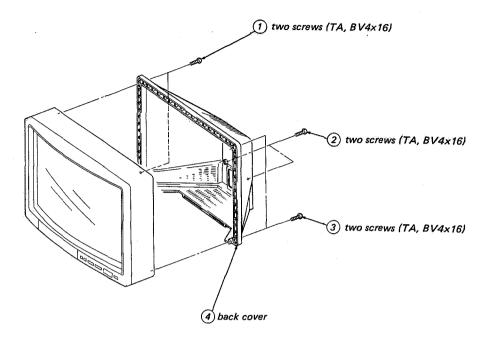
# NOTES ON CONNECTION

- Before connecting, make sure that the power to each piece of equipment is turned off.
- The plugs should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Match the color when connecting the plugs to the jacks.

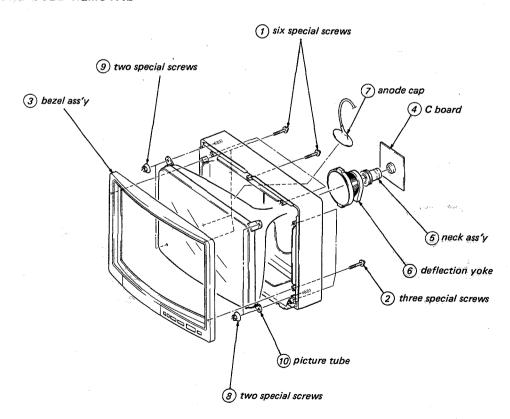
# SECTION 2 DISASSEMBLY

### 2-1. BACK COVER REMOVAL





### 2-2. PICTURE TUBE REMOVAL



# SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control . . . . maximum

BRIGHT control . . . . maximum

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Focus
- 3. Convergence
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser



# Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.
  - 1. Loosen deflection yoke screw.
  - 2. Adjust purity control as shown in Fig. 1.

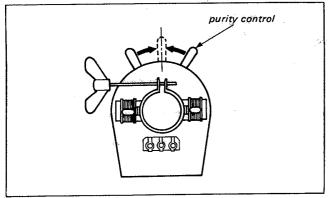


Fig. 1

- 3. Slide deflection yoke as far forward as it will go.
- 4. Position neck protector ass'y as shown in Fig. 2.

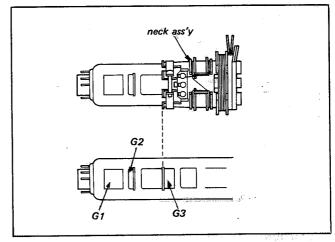


Fig. 2

- 5. Disconnect leads (B) and (G) on the C board.
- 6. Adjust purity control to center vertical red band as shown in Fig. 3.

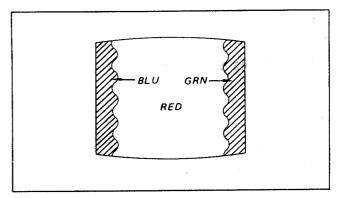
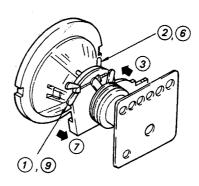


Fig. 3



Note: The circled numbers (1 – 9) show above steps.

- Slide deflection yoke back for a uniform red screen.
- 8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.

To get a uniform green screen,

connect lead on the C board and disconnect leads and o

To get a uniform blue screen,

connect lead  $\ensuremath{\mathbf{6}}$  on the C board and disconnect leads  $\ensuremath{\mathbf{6}}$  and  $\ensuremath{\mathbf{6}}$ 

After these checks, connect the leads **B** . **G** and **B** 

- 9. Tighten the deflection yoke screw.
- 10. Check if mislanding appears at corners a-d as shown in Fig. 4. If mislanding is observed, correct it as shown in Fig. 4.

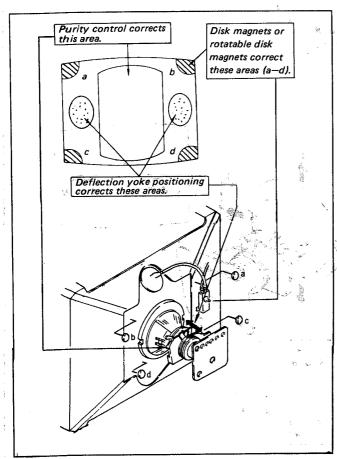


Fig. 4

 Confirm that beam landing is correct when the receiver is faced in all directions.

### 3-2. CONVERGENCE AND THE STATE OF THE STATE

### Preparation:

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHT control to fully counterclockwise.
- Feed in the dot pattern.

### (1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotage BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

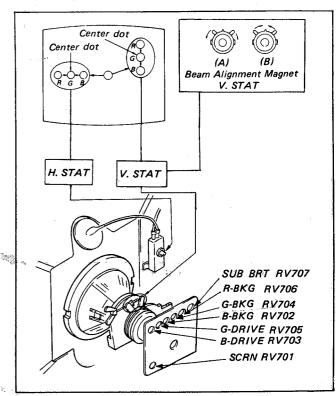


Fig. 5

Fig. 6

Ó



# (2) Dynamic Convergence Adjustment

# Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
  - 1. Loosen deflection yoke screw.
  - 2. Remove deflection yoke spacers.
  - 3. Move the deflection yoke for best convergence as shown in Fig. 7.
  - 4. Tighten the deflection yoke screw.
  - 5. Install the deflection yoke spacers.

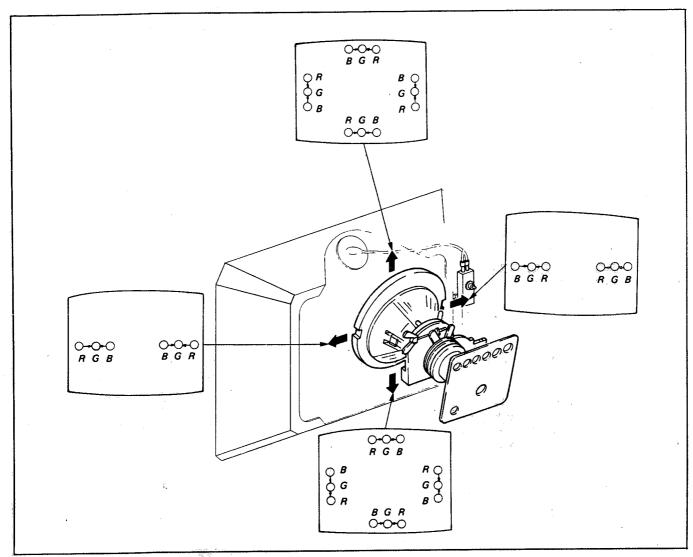
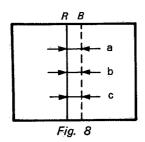


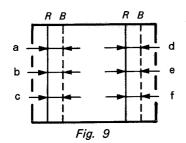
Fig. 7

Adjust the Y·CROSS (RV1506) and Y·BOW (RV1507), so that RED and BLUE shown in Fig.-8 will become a=b=c.

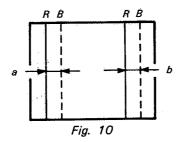


- 7. Match the horizontal convergence at the center of the screen with H STAT VR.
- Adjust the CORNER BOW (RV1508), so that RED and BLUE shown in Fig.-9 will become a=b=c and d=e=f.

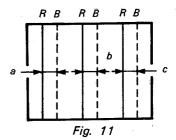
Note: At this point, if the relationship between a=c or d=f is not established, adjust the Y • CROSS (RV1506) again.



- 9. Match the horizontal convergence at the center of the screen with the H STAT VR.
- 10. Adjust the H TILT (RV1505) so that the RED and BLUE shown in Fig.-10 will become a=b.



11. Adjust the H AMP (RV1504) so that the RED and BLUE shown in Fig.-11 will become 2=2b.



- 12. Match the horizontal convergence at the center of the screen with the H STAT VR.
- 13. When the H AMP is adjusted repeat the procedures described in Steps 10 to 12.
- 14. If divergence of the convergence exists at the corner of the screen, the adjustments described in Steps after 8 should be repeated.

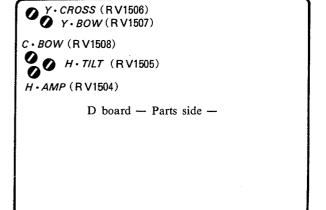
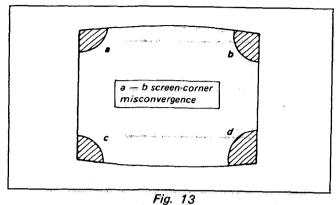


Fig. 12

## (3) Corner Convergence



Affix a permalloy ass'y corresponding to the misconverged areas.

Permalloy assembly (Part No. X-4308-815-0)

Fig. 14

### 3-3. WHITE BALANCE

Feed in the cross-hatch pattern.

- 1. Set the PICTURE and BRIGHT controls to minimum position
- 2. Turn B. DRIVE and G. DRIVE controls fully clockwise.
- 3. Set B. BKG, G. BKG and R. BKG controls to mechanical center.
- 4. Turn SCRN control slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning SCRN control. Do not turn a BKG control for this color.
- 5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
- 6. Set the PICTURE and BRIGHTNESS controls to maximum position
  Observe the screen and adjust the DRIVE controls for best white balance.
- 7. Repeat Steps 1 through 6 several times.

### 3-4. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.

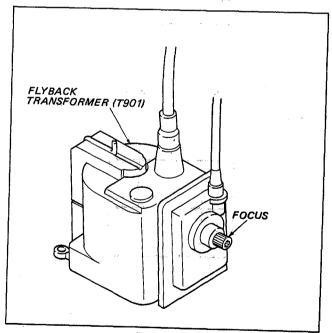
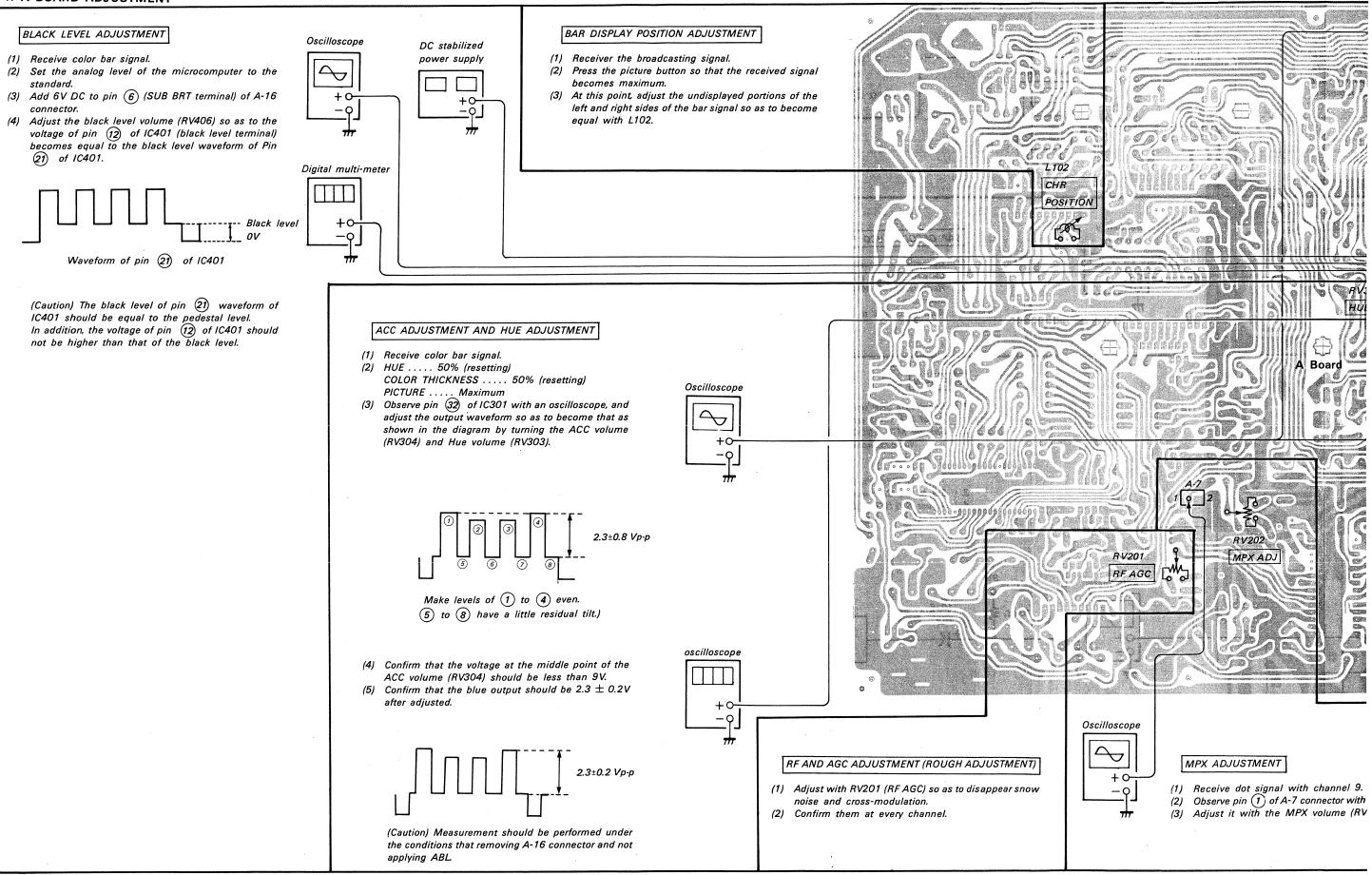
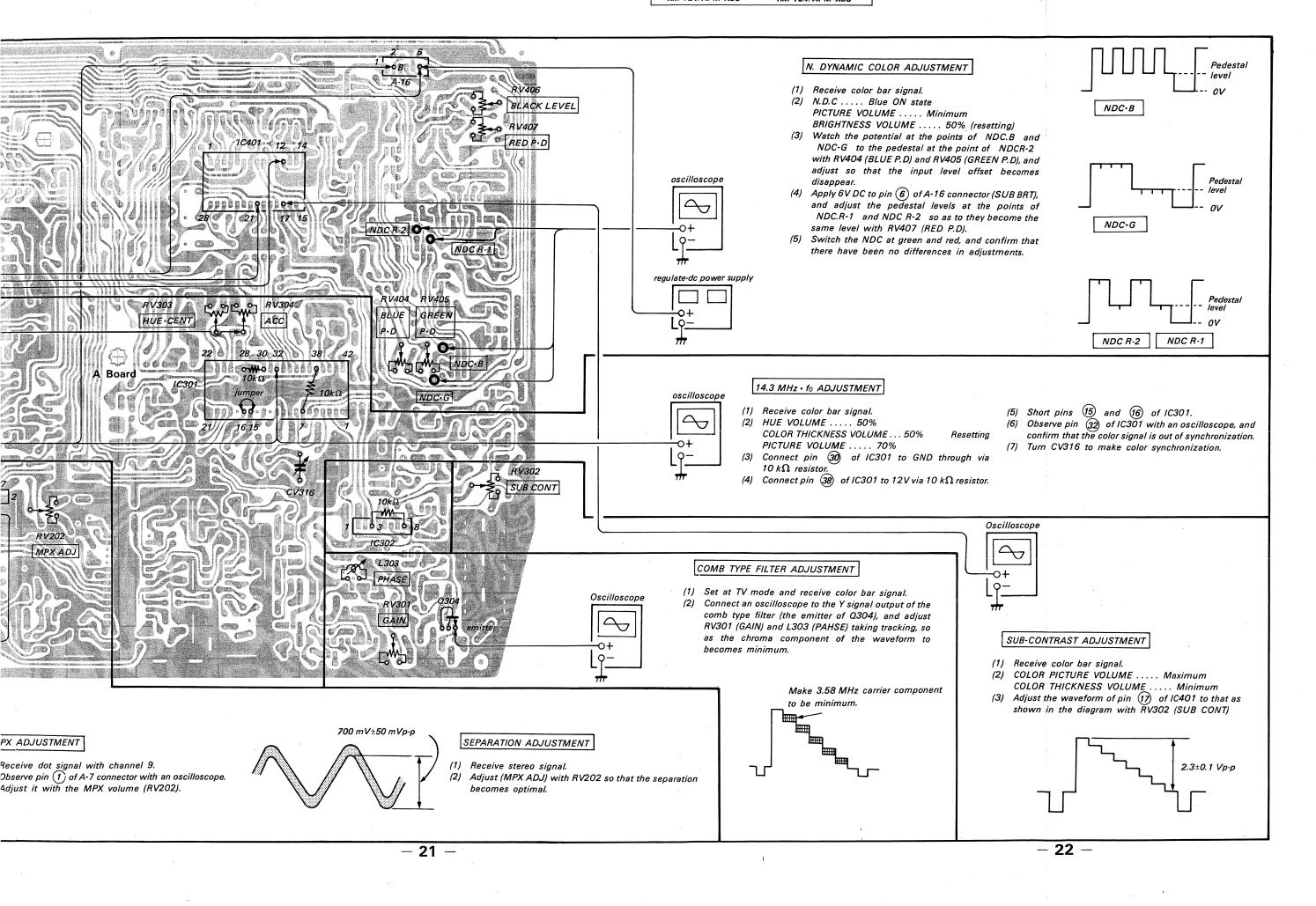


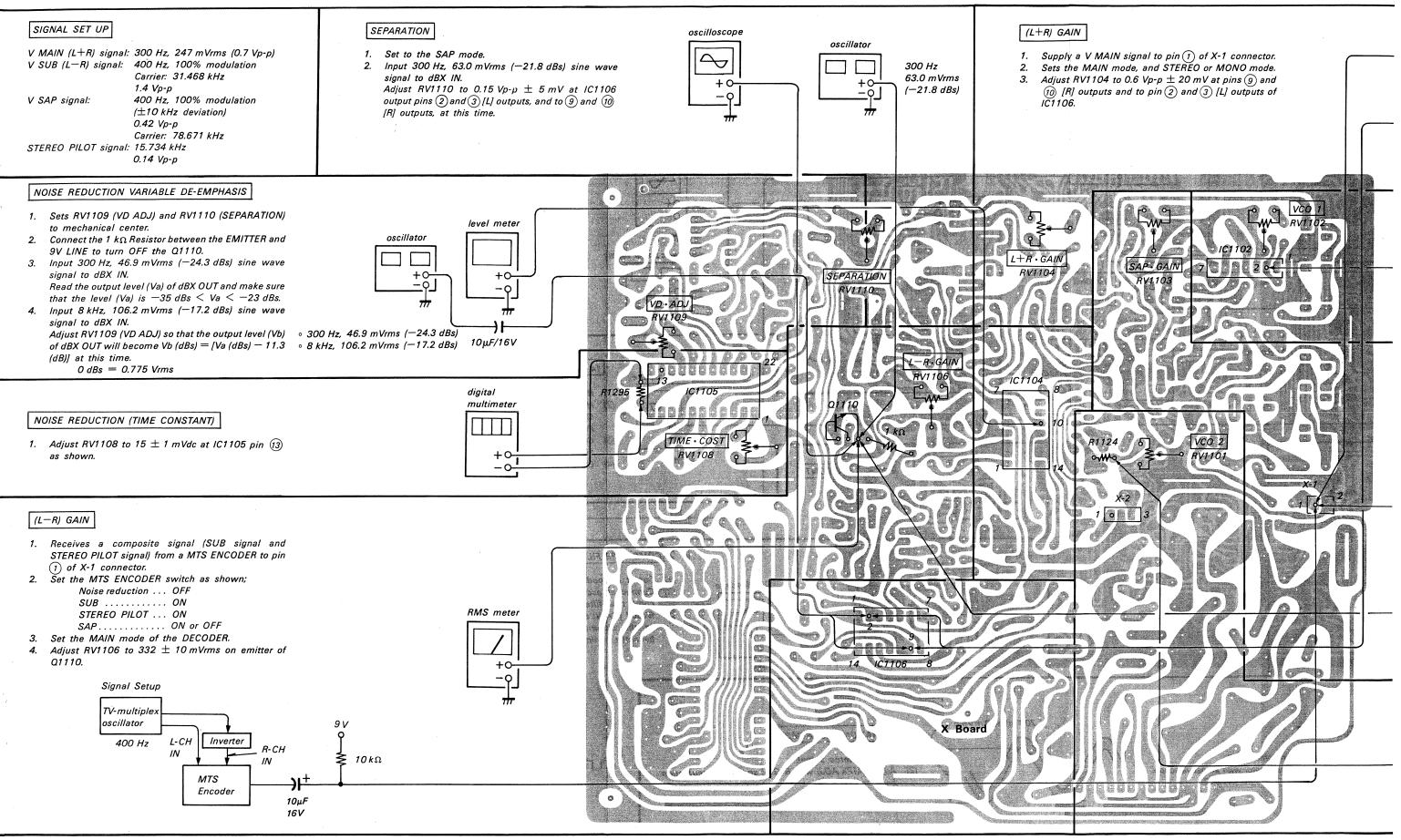
Fig. 15

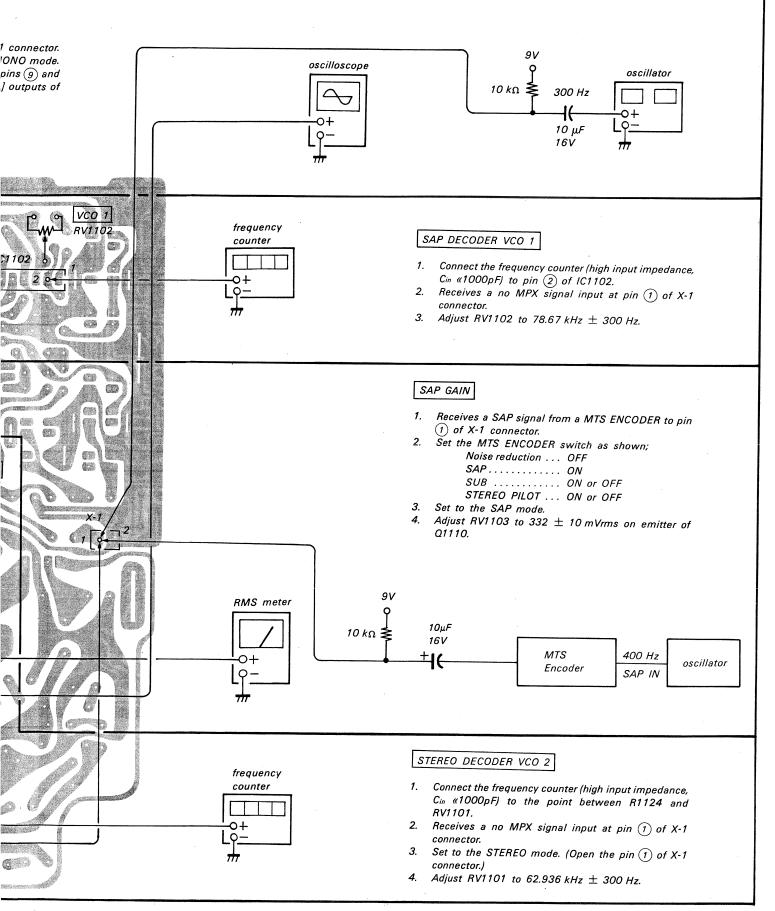
# 4-1. A BOARD ADJUSTMENT



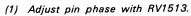


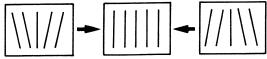
# 4-2. X BOARD ADJUSTMENTS





OPERATION CONFIRMATION OF THE LEFT AND RIGHT PINS DISTORTIONS AND ADJUSTMENTS (ROUGH ADJUSTMENTS)

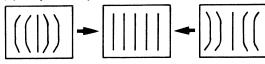




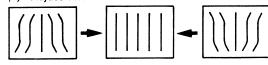
(2) Adjust pin amplification with RV1512.



(3) Adjust U/L pin with RV1509.



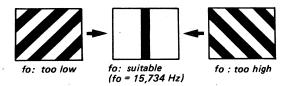
(4) Adjust PIN CORRECT with RV1510.

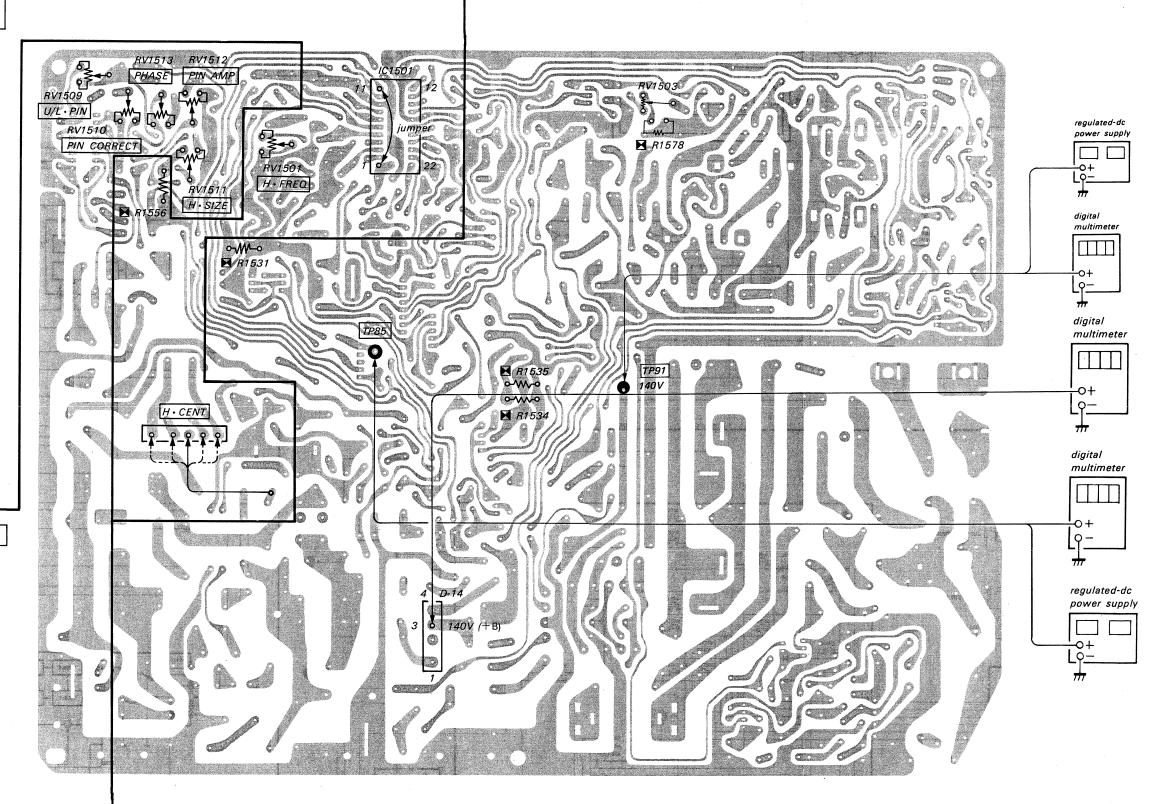


(5) Adjust the horizontal amplitude to 15.5  $^{+0.1}_{-2.0}$  frames with RV1511.

# ADJUSTMENT OF HORIZONTAL SYNCHRONIZATION

- (1) Connect pin 1 of IC1501 to pin 11. At this time, be sure to connect pin 3 of IC302 on the A board to 12V through 10 kΩ.
- (2) Turn the horizontal synchronizing volume (RV1501), and adjust the volume so as to flow of the picture becomes as shown in diagram.
- (3) Remove pin 11 from pin 1 and be sure to confirm the horizontal synchronization is normal and whether picture becomes out of order when channel is switched or not.





Confirming of Hold Down Circuit H R1531, R1534, R1535, R1556, R1578

Perform the adjustment below when replacing any of the following components.

Regarding components of ■R1531 (HV HOLD DOWN) □ D1502, D1507, IC1501, Q1502, Q1503, R427, R431 R437, R438, R1512, R1519, R1529, R1530, R1531, R1532, R1533, R1543, R1544, R1545

### Confirmation method

regulated-dc

power supply

digital

digital

digital

multimeter

regulated-dc

power supply

multimeter

- (1) +B MAX confirmation
  - 1) Set AC be 130  $^{+3}_{-0}$  V and distortion rate be less than 3%, and receive monosco and reset picture and brightness.
  - At this point, the voltage on the 140V line should be less than 141.5V DC.
- (2) Operational confirmation of detected voltage
- 1) Set AC be 120V  $\pm$  3V and distortion rate be less than 3%, and receive entire white signal, and set the picture and brightness at MAX.
- At this point, comfirm that the voltage more than 11.0V DC is appeared on TP85.
- Inaddition, confirm that TP85 holds down when
- 15.19  $^{+0.0}_{-0.05}$  V DC isapplied to it.

  4) Confirm that TP85 does not hold down when the voltage of 14.58  $^{+0.05}_{-0.0}$  V DC is applied to it.
- Set AC be 120V±3V and distortion rate be less than 3%, and receive dot signal and set the picture and brightness at MIN.
- 6) Confirm that TP85 holds down when 16.29  $^{+0.0}_{-0.05}$  V DC is applied to it.
- 7) Confirm that TP85 does not hold down when 15.77  $^{+0.05}_{-0.0}$  V DC is applied to it.

### V. SIZE CONFIRMATION

- The following adjustments should always be performed when replacing the following components (marked with an the components circuit).
- Regarding components of R1578 (V. SIZE) **△**C1519, C1663, C1664, C1667, C1675, IC1501, L1514, R1522, R1578, R1579, R1580, R1581, R1582, R1583, RV1503, FBT, DY
- 1. Receive monoscope signal.
- 2. PICTURE BRIGHTNESS RESET
- 3. Confirm that the V. SIZE at minimum should not exceed 14.6 frames by adjusting RV1503 (V. SIZE).

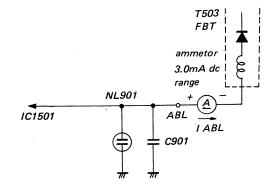
### H. SIZE CONFIRMATION

- The following adjustments should always be performed when replacing the following components (marked with on the components circuit).
- \* Regarding components of R1556 (H. SIZE) ☑ C1663, C1664, C1667, C1675, IC1502, L1514, R1556, R1570, R1635, R1636, R1638, RV1511, FBT, DY
- 1. Receive monoscope signal.
- 2. PICTURE
  BRIGHTNESS RESET
- 3. Confirm that the H. SIZE should be within 11.3 to 14.0 frames when adjusting the H. SIZE (RV1511) to maxi-

### PROTECROE CONFIRMATION

- The following adjustments should always be performed when replacing the following components (marked with on the component circuit).
- \* Regarding components of R1534, R1535 (PRO-TECTOR!
- D1508, D1509, IC301, IC401, Q1506, R339, R340, R348, R436, R1534, R1535, R1537, R1538, R1539, R1561, R1576
- 1. Receive color bar signal.
- 2. Turn the power supply of the set to ON.
- 3. PICTURE BRIGHTNESS | maximum COLOR
- 4. Apply DC 125.3 $^{+0.2}_{-0}$ V externally to +B line, and confirm that the PROTECTOR CIRCUIT becomes active and the raster disappears from the screen.

### SAFETY RELATED ADJUSTMENT



# CONFIRMING OF HV HOLD DOWN (MR1531)

When replacing the following components (marked with on the schematic diagram), perform the adjustment as follows.

- D1502, D1507, IC1501, Q1502,Q1503,R427, R431 R437, R438, R1512, R1519, R1529, R1530, R1531, R1532, R1533, R1543, R1544, R1545
- (1) Before Adjustment
- 1. Supply 120V ac and the POWER switch set to ON.
- 2. Confirm that there is more than 11.0 V at the hold down check point TP-85.
- 3. The POWER switch turns OFF.
- (2) Readjustment Procedure
- 1. Disengage ABL terminal of FBT from the foil and connect the ammeter as shown to measure the ABL terminal

- 2. Supply 120V ac and the POWER switch sets to ON.
- 3. Apply 135V to TP91 from and external DC power supply.
- 4. Receive a stable signal such as an all-white signal and adjust ABL current to 1600±10 µA with PICTURE, BRIGHT, etc. VRs.
- 5. Confirm that the HV HOLD DOWN CIRCUIT operates and that raster disappears when 15.19 $^{+0.00}_{-0.05}V$  is applied to hold down check point TP-85 from an external DC po-

Note: When raster disappears, cut input voltage and applied voltage immediately.

- 6. Confirm that the HV HOLD DOWN CIRCUIT does not operate when  $14.58^{+0.05}_{-0.00}$  V is applied to hold down check point TP-85 from an external DC power supply.
- Note: If the HV HOLD DOWN CIRCUIT operates, immediately cut input and applied voltage
- 7. Receive a stable signal such as a dot signal and adjust ABL current for  $200 \pm 10 \,\mu\text{A}$  with PICTURE and BRIGHT VRs.
- 8. Confirm that the HV HOLD DOWN CIRCUIT does not operate when  $15.77^{+0.05}_{-0.00}$  V is applied to hold down check point TP-85 from an external DC power supply.

Note: If the HV HOLD DOWN CIRCUIT operates, immediately cut input and applied voltage.

9. Confrim that the HV HOLD DOWN CIRCUIT operates and raster disappears when  $16.29 {+0.00 \atop -0.05} V$  is applied to hold down check point TP-85 from an external DC pow-

Note: When raster disappears, cut input voltage and applied voltage immediately.

10.Adjust R1531 so that steps 5, 6, 8 and 9 are satisfied.

- 11. The POWER switch turns OFF.
- 12. Remove external DC power supply and DC ammeter.
- 13. Solder FBT ABL pin.

### CHECKING AFTER H.V.R. REPLACEMENT

After replacing H.V.R., \*comfirm that there is more than 11.0 V on HOLD DOWN check point TP-85.

\* This check is to be performed when H.V.R. only is replaced, and has no relation to the HV hold down circuit readjustment for replacement of parts marked  $\square$ .

### MAXIMUM +B VOLTAGE CONFIRMATION

- 1. Supply 130V ac to with variable auto-transformer.
- 2. Tune in an off air signal.
- 3. Set the PICTURE control to initial setting and BRIGHT control to mechanical center.
- 4. Confirm the voltage on digital multimeter is less than 141.5V dc.
- 5. If step 4 is not satisfied, replace IC651 on GB borad and repeat above steps.

# CHECK AFTER IC651 REPLACEMENT

- 1. Supply 130 V ac to with variable auto-transformer.
- 2. Tune in an off-air signal.
- 3. Set the PICTURE control to initial setting and BRIGHT to mechanical center.
- 4. Confirm the voltage of TP91 is less than 141.5 V dc.
- 5. If step 4 is not satisfied, replace IC651 in GB board and repeat above spteps.

### CONFIRMATION OF H.SIZE (MR1556)

Perform the adjustment below when replacing any of the following components.

☑ C1663, C1664, C1667, C1675, IC1502, L1514, R1556, R1570, R1635, R1636, R1638, RV1511,

### Confirmation method

- 1. Receive monoscope signal. BRIGHTNESS ......
- Confirm that the H.SIZE should be within 11.3 to 14.0 frames when adjusting the H.SIZE (RV1511) to maximum.

### CONFIRMATION OF V.SIZE (MR1578)

Perform the adjustment below when replacing any of the following components.

 □ C1519, C1663, C1664, C1667, C1675, IC1501, L1514, R1522, R1578, R1579, R1580, R1581, R1582, R1583, RV1503, FBT, DY

### Confirmation method

- 1. Receive monoscope signal.
- BRIGHTNESS . . . . . . . .
- 3. Confirm that the V.SIZE at minimum should not exceed 14.6 frames by adjusting RV1503 (V.SIZE).

### CONFIRMATION OF PROTECTOR (MR1534, R1535)

Perform the adjustment below when replacing any of the following components.

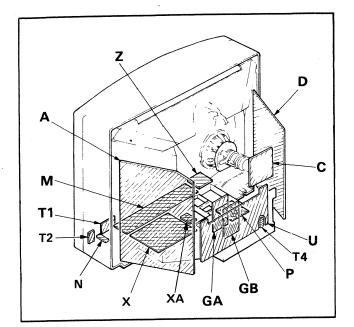
☑ D1508, D1509, IC301, IC401, Q1506, R339, R340. R348, R436, R1534, R1535, R1537, R1538, R1539, R1561 R1576

### Confirmation method

- Receive color bar signal.
- Turn the power supply of the set to ON.
- PICTURE . . . . . . . . . . . . BRIGHTNESS..... maximum
- confirm that the PROTECTOR CIRCUIT becomes active and the raster disappears from the screen.

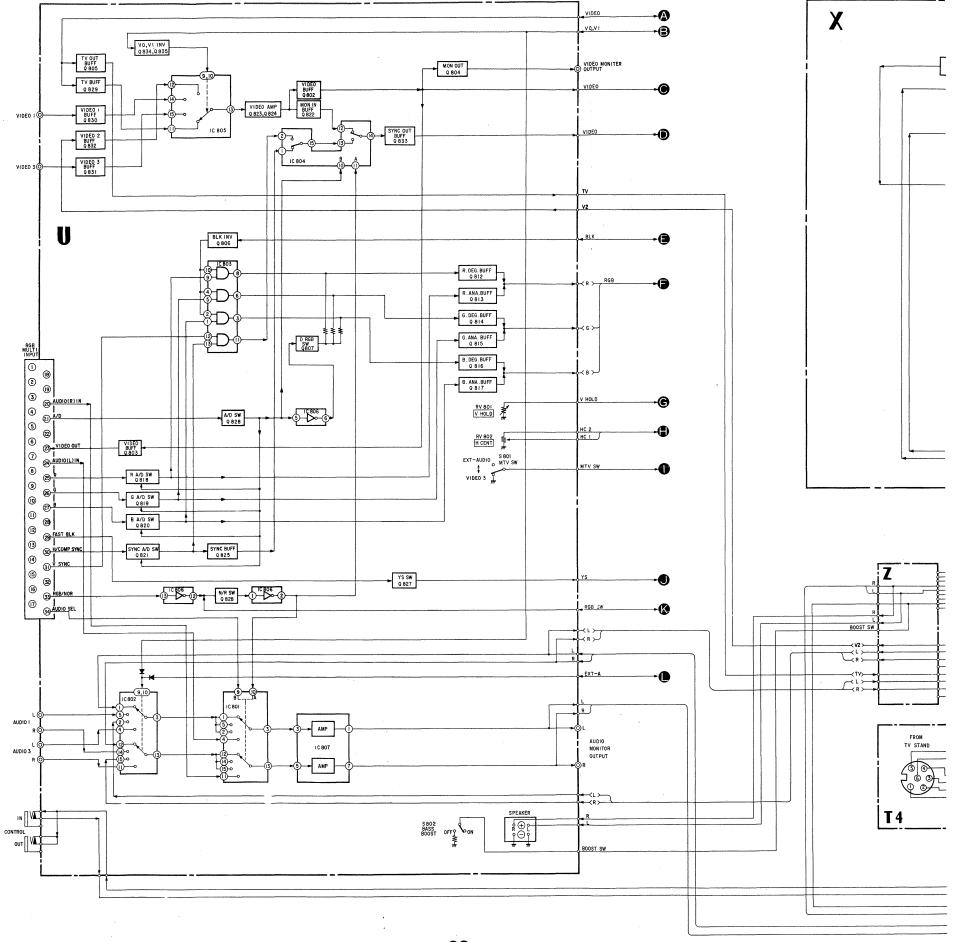
# SECTION 5 DIAGRAMS

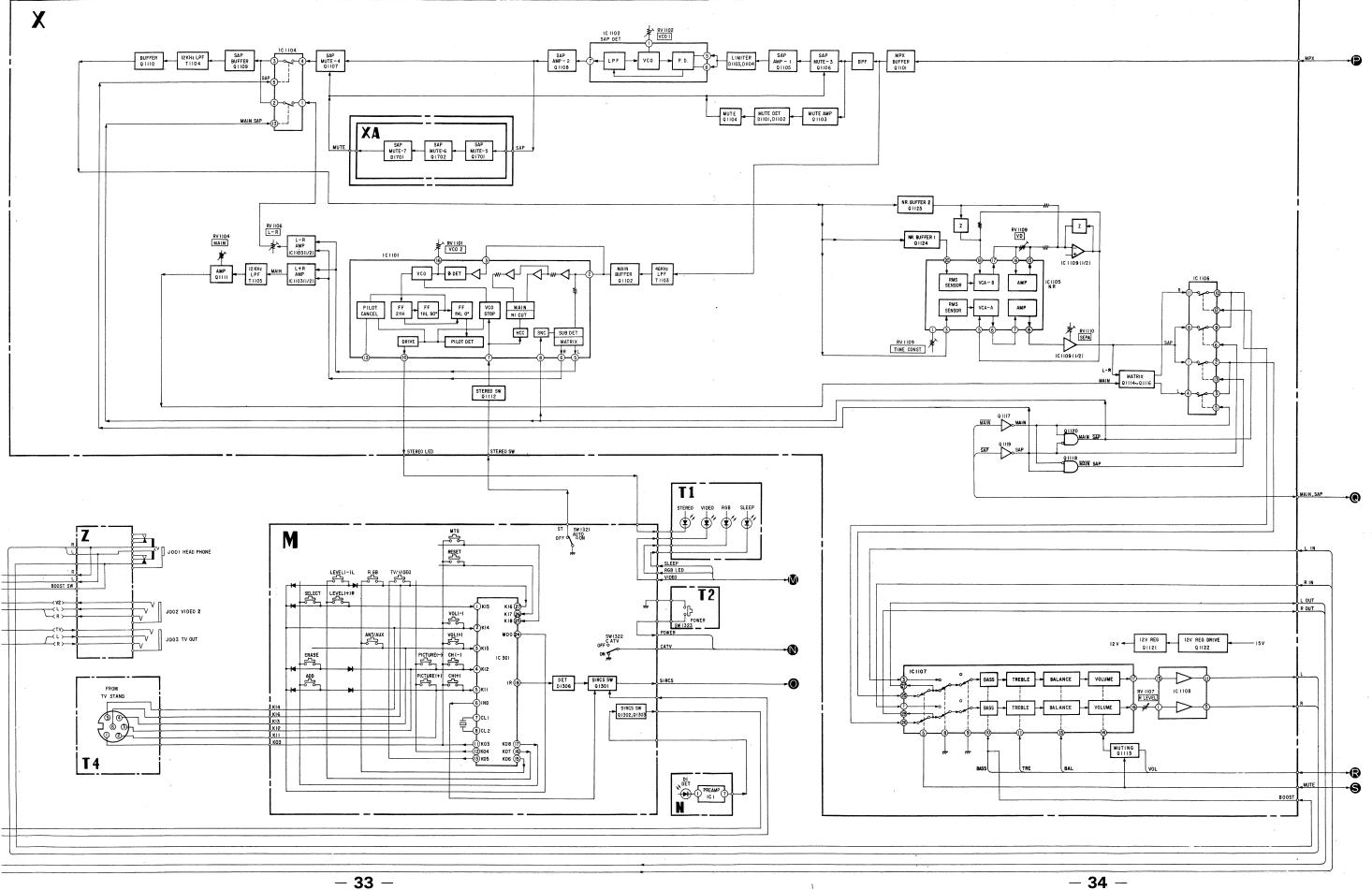
# 5-1. CIRCUIT BOARDS LOCATION

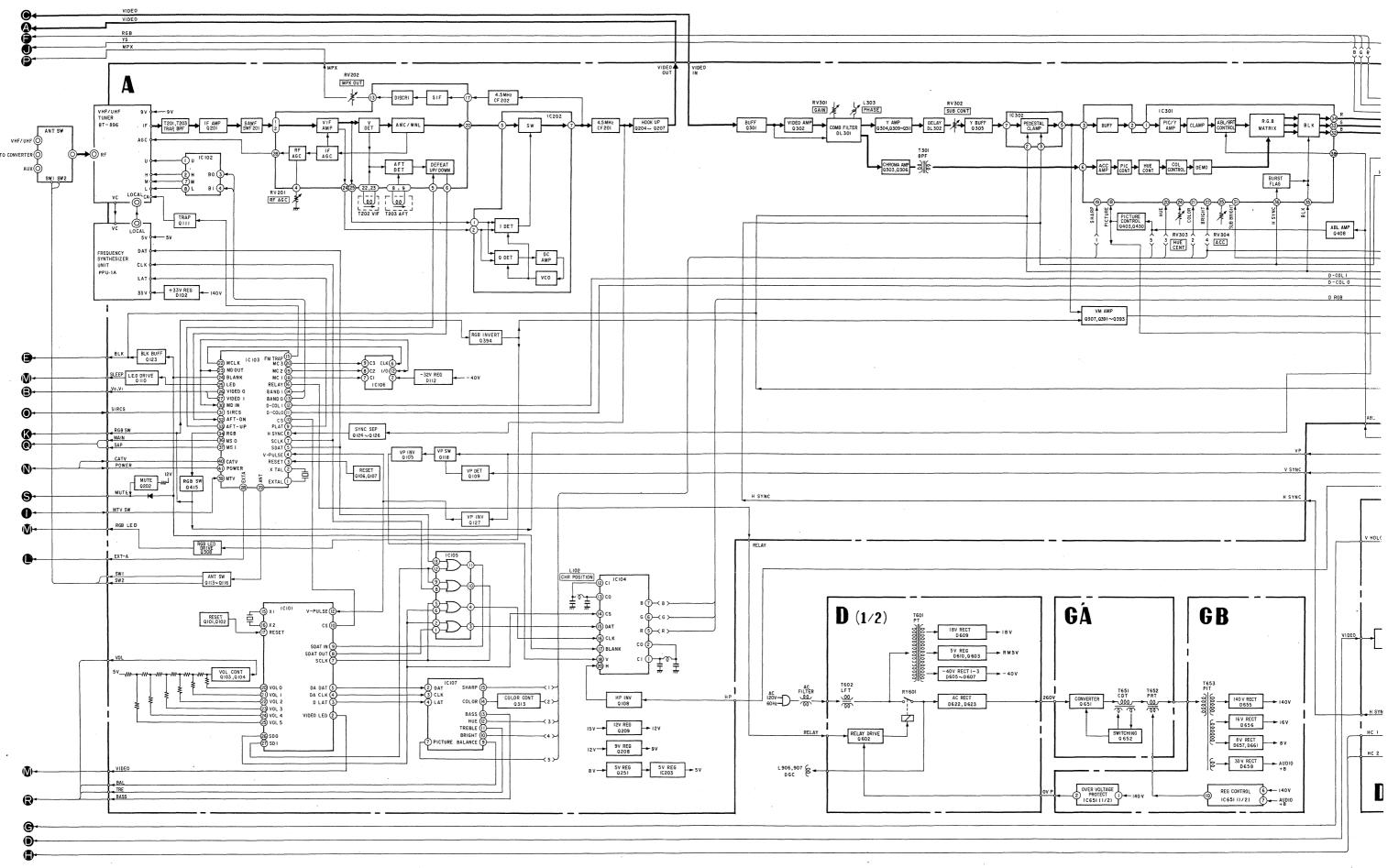


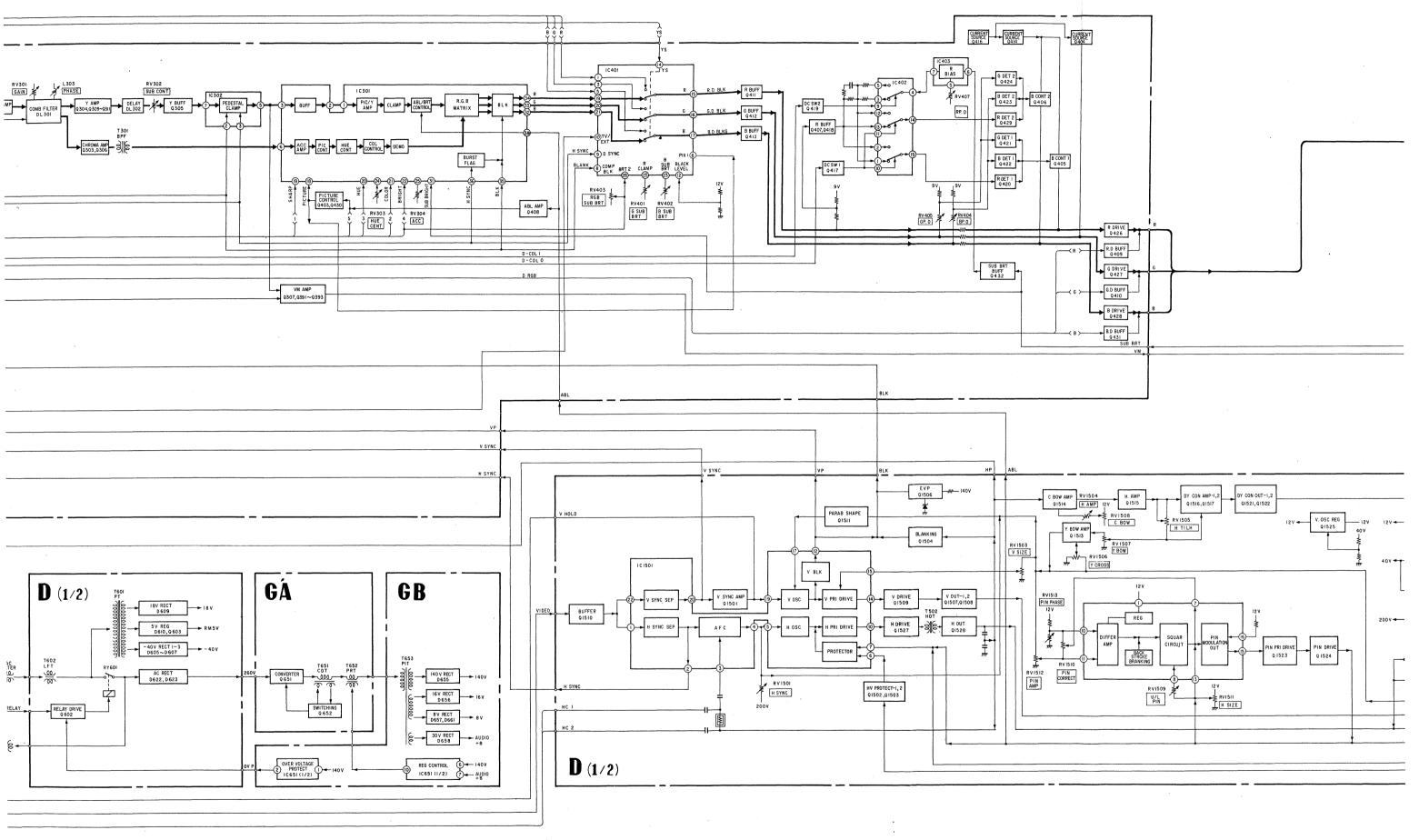
5-2. BLOCK DIAGRAM

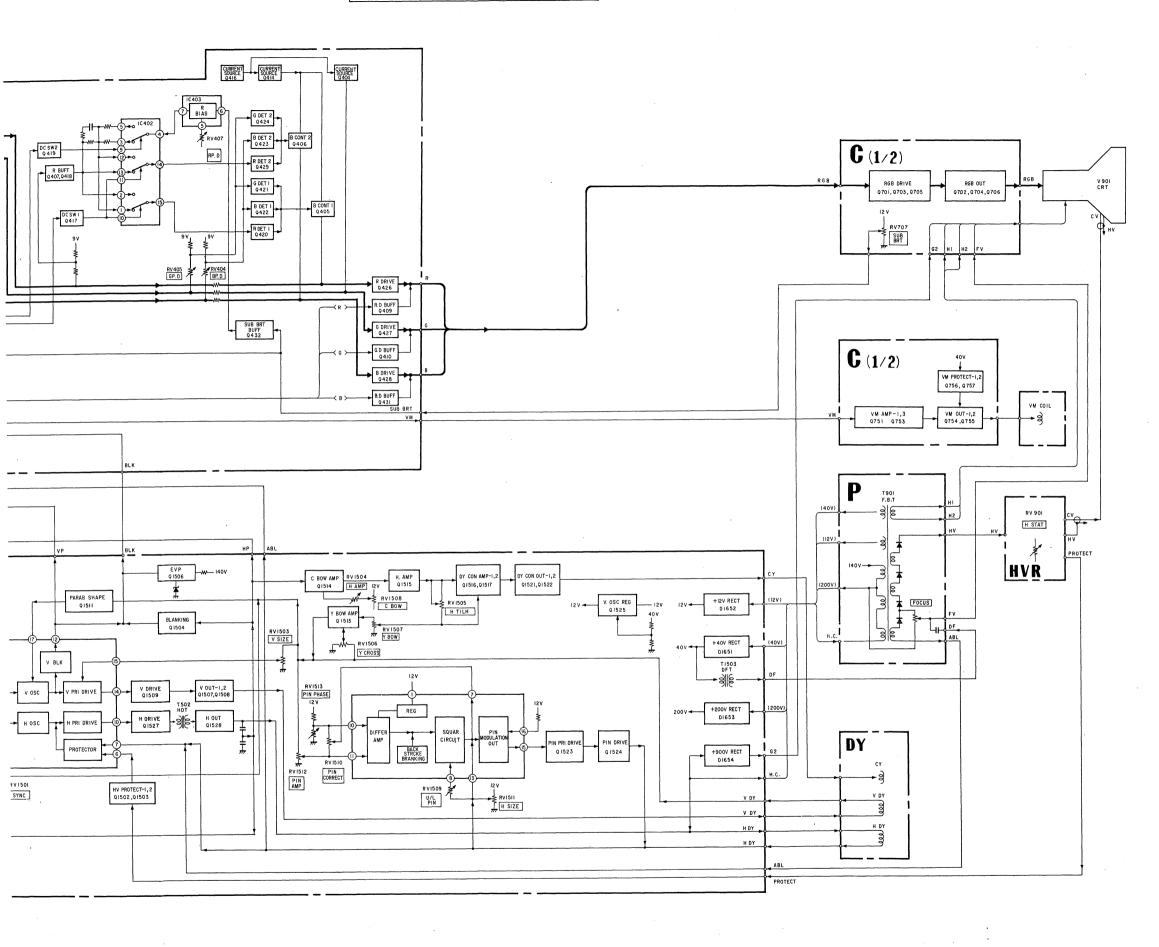
KV-25XBR RM-724/APM-X3U KV-25XBR RM-724/APM-X3U



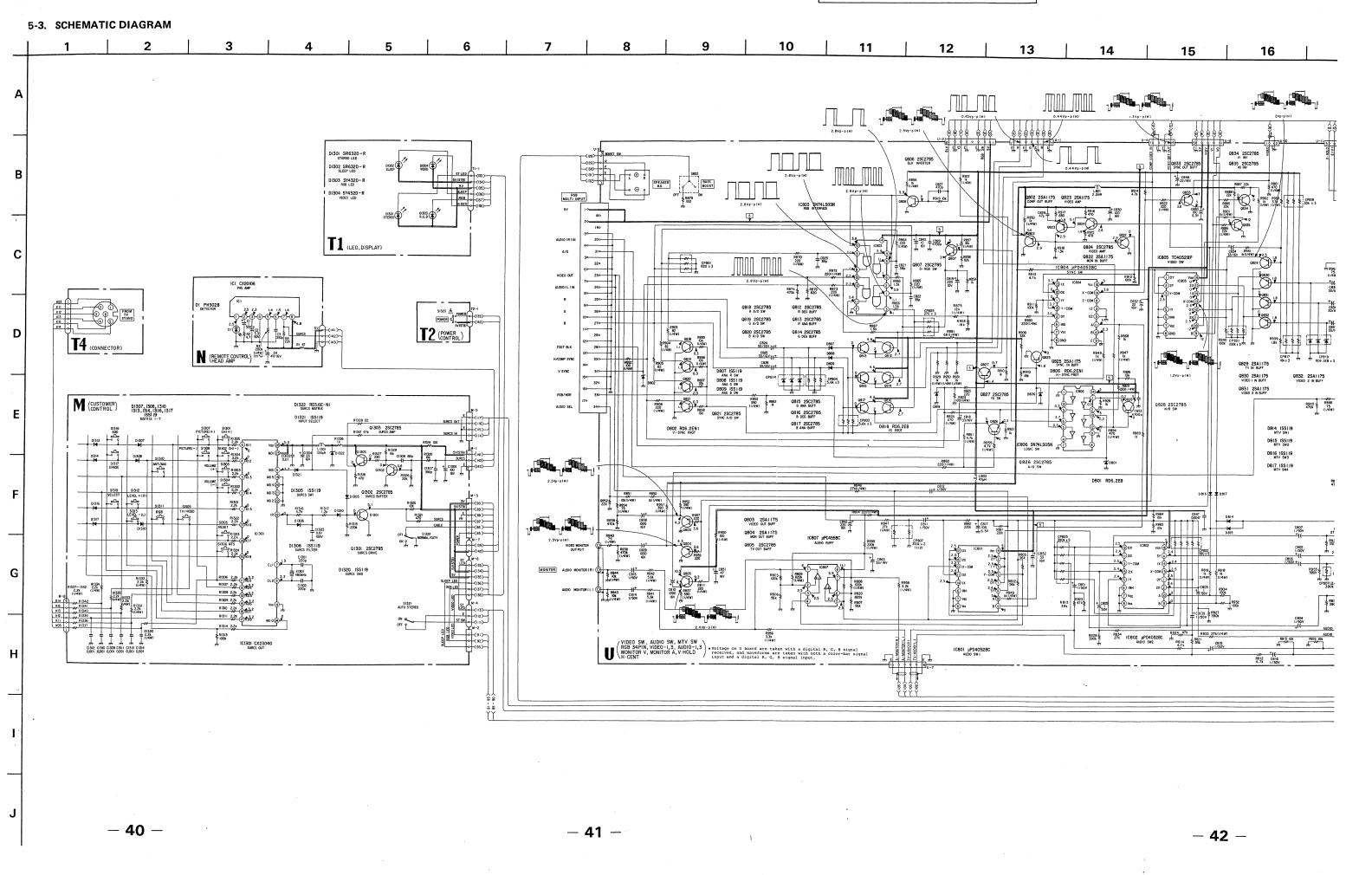








KV-25XBR RM-724/APM-X3U KV-25XBR RM-724/APM-X3U



IC801 µPD4052BC

₿R

12 13 14 15 16 17 18 19 20 21 22 26 23 24 25 27 28 QIIOI 2SC2785 MPX BUFF Q1105 2SC2785 D1103,1104 ISS119 SAP AMP I CLAMP 1,2 ICIJO2 TA7I33P SAP DECODER QIIOB 2SAII75 Q806 2SC2785 BLK INVERTER RV802 H-CENT RII40 \_\_\_\_\_\_CII2I 6.8k \_\_\_\_\_\_330p 5 IC805 TC4052BP | XA (SAP MUTE) | Q1702 | D1701 | SAP MUTE 6 | SAP MUTE 7 R875 12k (1/4W) R 908 € 18k Q1102 2SC2785 MAIN BUFFI QIIII 2SAII75 MAIN AMP R949 Q829 2SA1175 TV IN BUFF S1/35/6/ RYUD4

3.3/6/ RYUD4

3.3/6/ RYUD4

3.3/6

3.3/6

3.3/6

7.4

5.6/6

5.6/8

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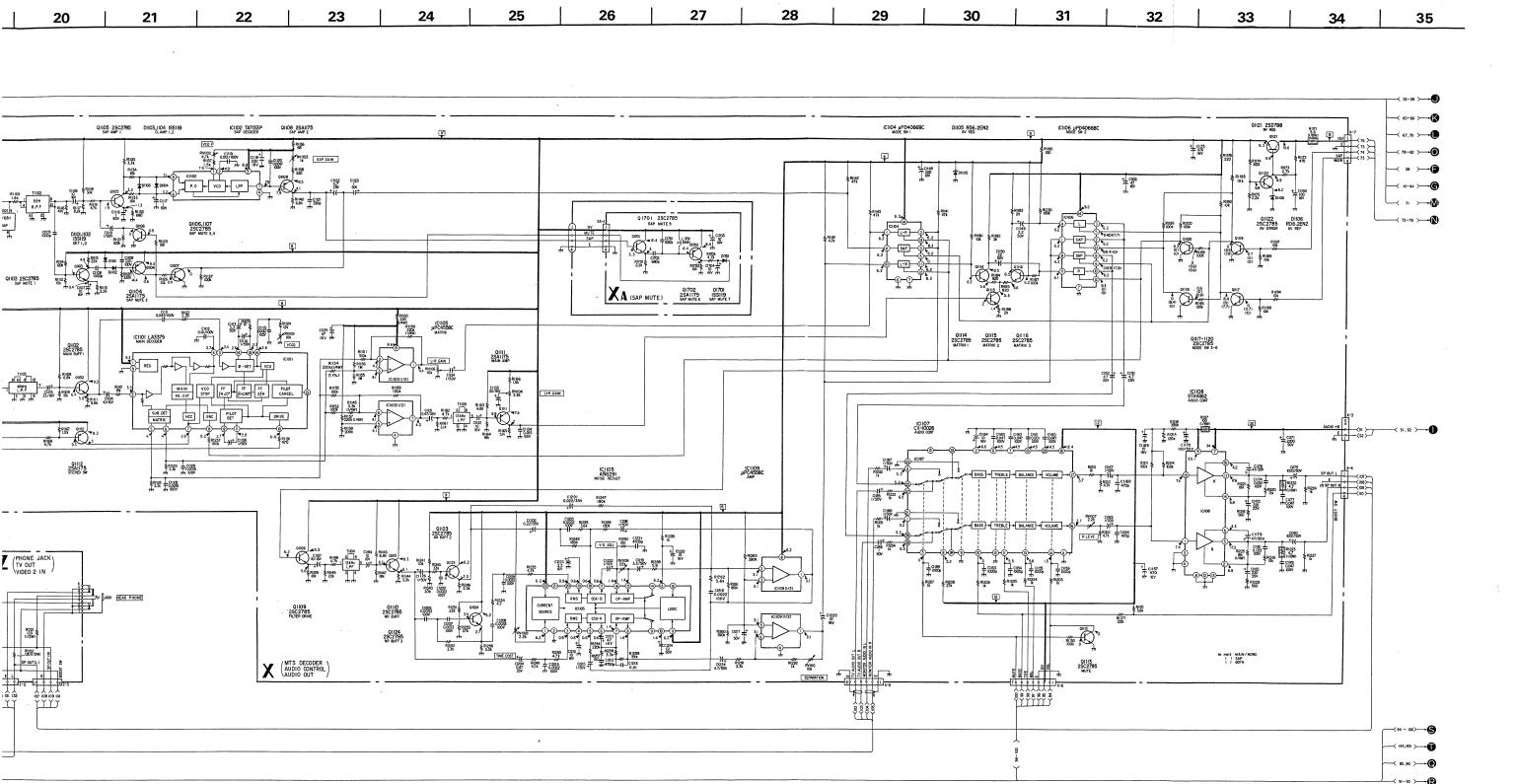
6.6/8

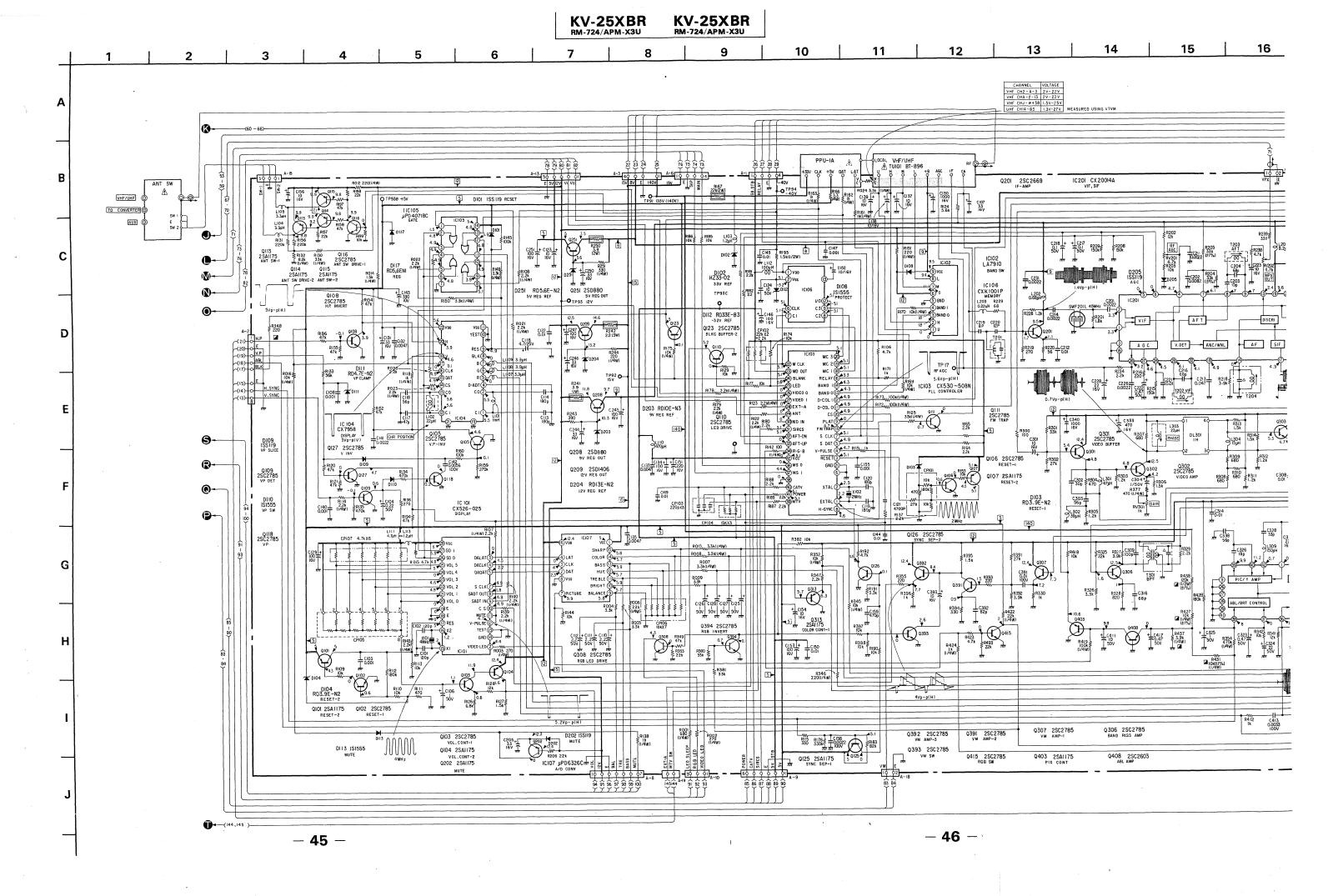
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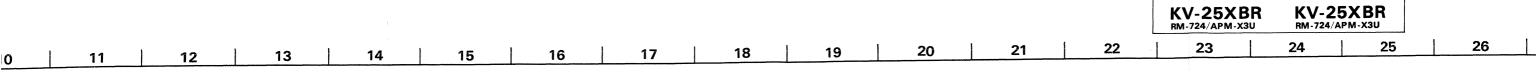
6.6/8

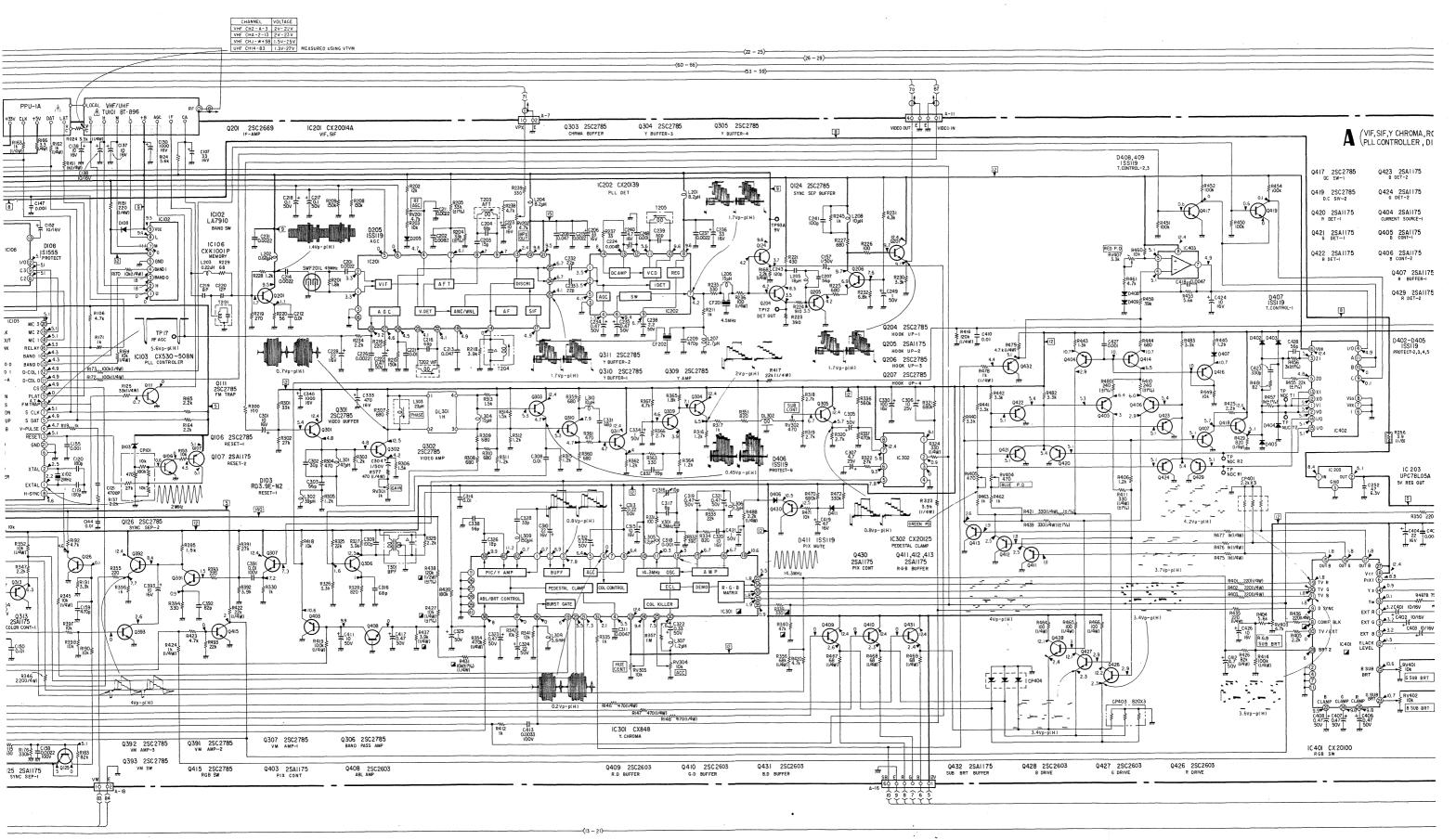
6. Q830 2SA1175 VIDEO I IN BUFF L+R.GAIN (1/4w) (1/4w) (1/4w) R825 R825 R823 N03(1/4w) 777 DBIB R824 1 CBIB R824 T CBIB Q831 2SA1175 VIDEO 3 IN BUFF R845 R846 470k 75 (1/4W) HCC SNC PILOT DET Q828 2SC2785 N/R SW RILIET OILIZ 5 0820 0.3 R855 1k D814 ISS119 MTV SWI D815 ISS119 MTV SW2 QIII2 2SAII75 STEREO SW Rii29 Cii29 3.3\* T0.0015 D816 ISS119 MTV SW3 ICI 105 AÑ6291 NOISE REDUCT IC1109 µPC4558C RII28 CII28 3.3k T.00015 D817 ISS119 C12 01 R1247 0.022/35V 180k DB01 RD6.2EB 0.22/35v R1248 180k RI290 C1221 150 4700p C811 CP607 390k x 2 (1/2) 01109 2SC2785 FILTER DRIVE R958 ₹ 3.3k (1/4W) R001 -120 ≤ (1/2W) (MTS DECODER AUDIO CONTROL AUDIO OUT

4.

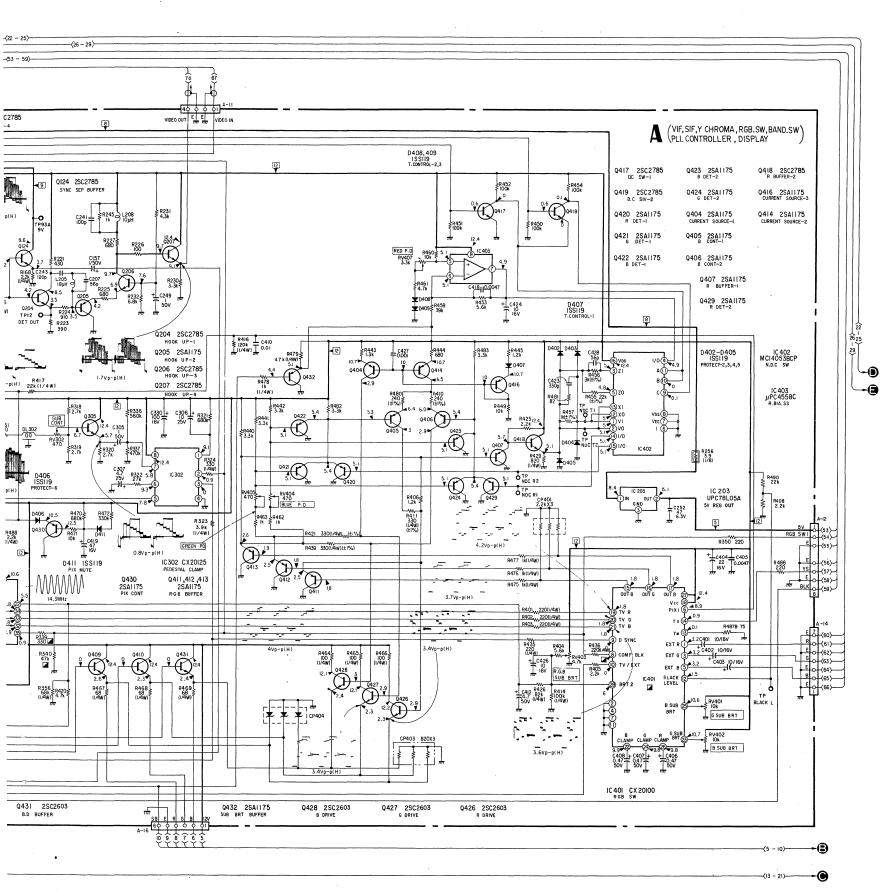








19 20 21 22 23 24 25 26 27 28



Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

### Note:

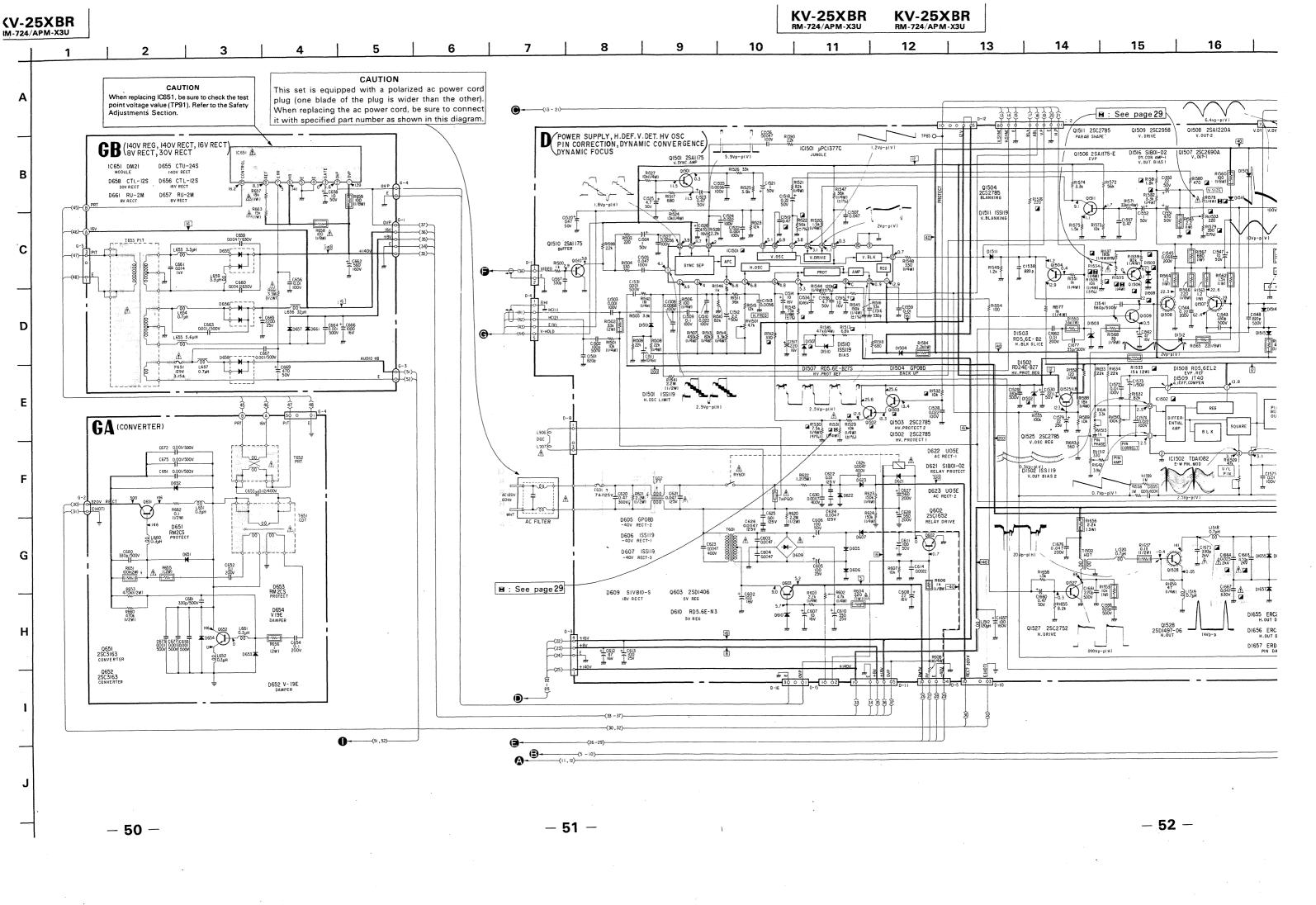
- All Capacitors are in μF unless otherwise noted, pF: μμF
   50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms. 1/6W unless otherwise noted.  $k\Omega = 1000\Omega, \, M\Omega = 1000k\Omega$
- Standard for the M Board is 1/4W:
- inonflamable resistor.
- Δ : internal component.
- \_\_\_\_ : panel designation.
- All variable and adjustable resistors have characteristics curve B, unless otherwise noted.
- The components indentified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

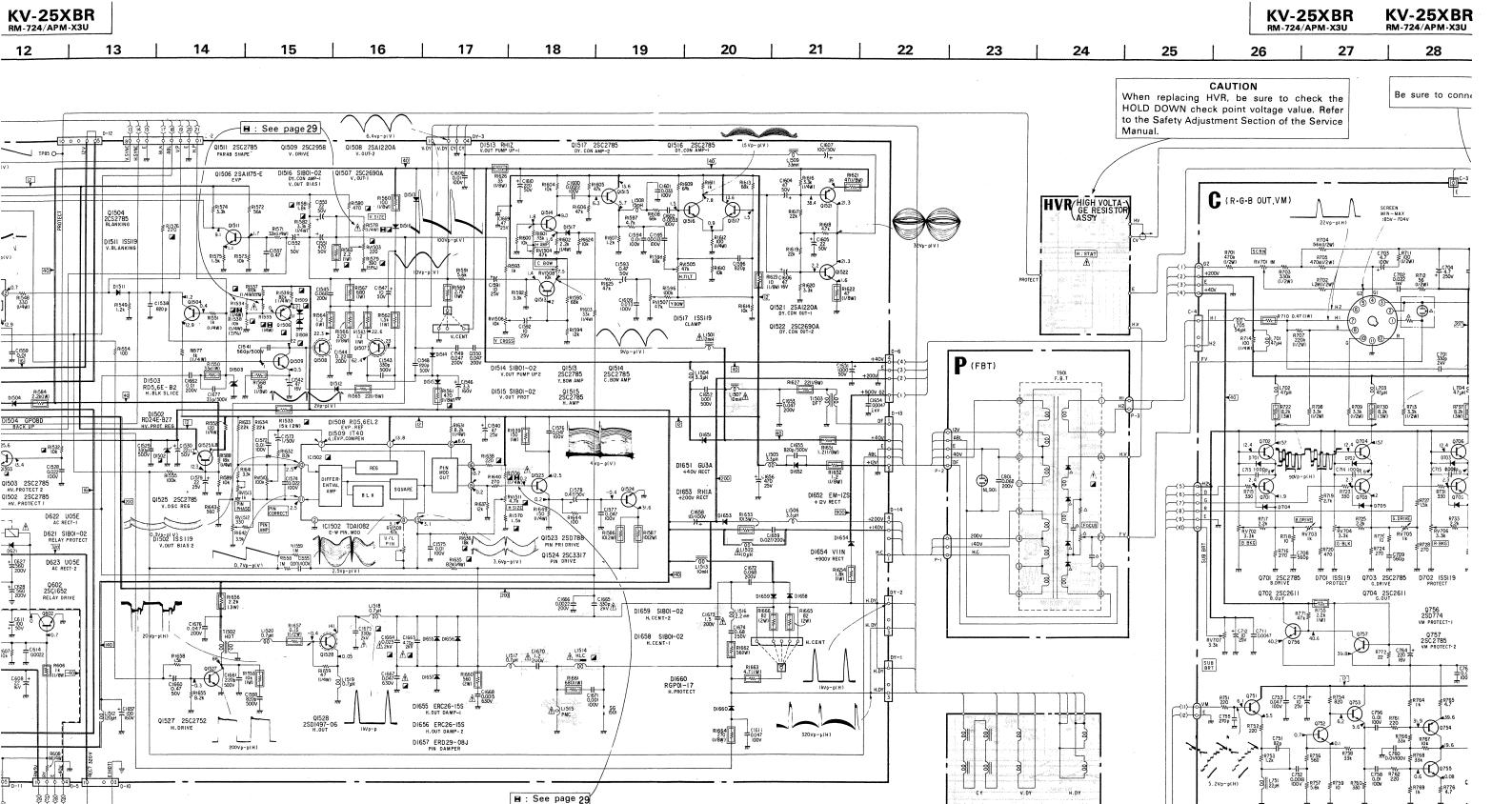
(Refer to R1531, R1534, R1535, R1556, R1578 adjustment on page 29.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ( )	Adjustment ( 🔀 )
D1502, D1507, IC1501 Q1502, Q1503, R427 R431, R437, R438 R1512, R1519, R1529 R1530, R1531, R1532 R1533, R1543, R1544 R1545	R1531
D1508, D1509, IC301 IC401, Q1506, R339 R340, R348, R436 R1534, R1535, R1537 R1538, R1539, R1561 R1576	R1534, R1535
C1663, C1664, C1667 C1675, IC1502, L1514 R1556, R1570, R1635 R1636, R1638, RV1511 FBT, DY	R1556
C1519, C1663, C1664 C1667, C1675, IC1501 L1514, R1522, R1578 R1579, R1580, R1581 R1582, R1583, RV1503 FBT, DY	R1578

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- --- : B + bus.
- --- : B bus.
- Voltage variations may be noted due to normal production tolerances.
- adjustment for repair.

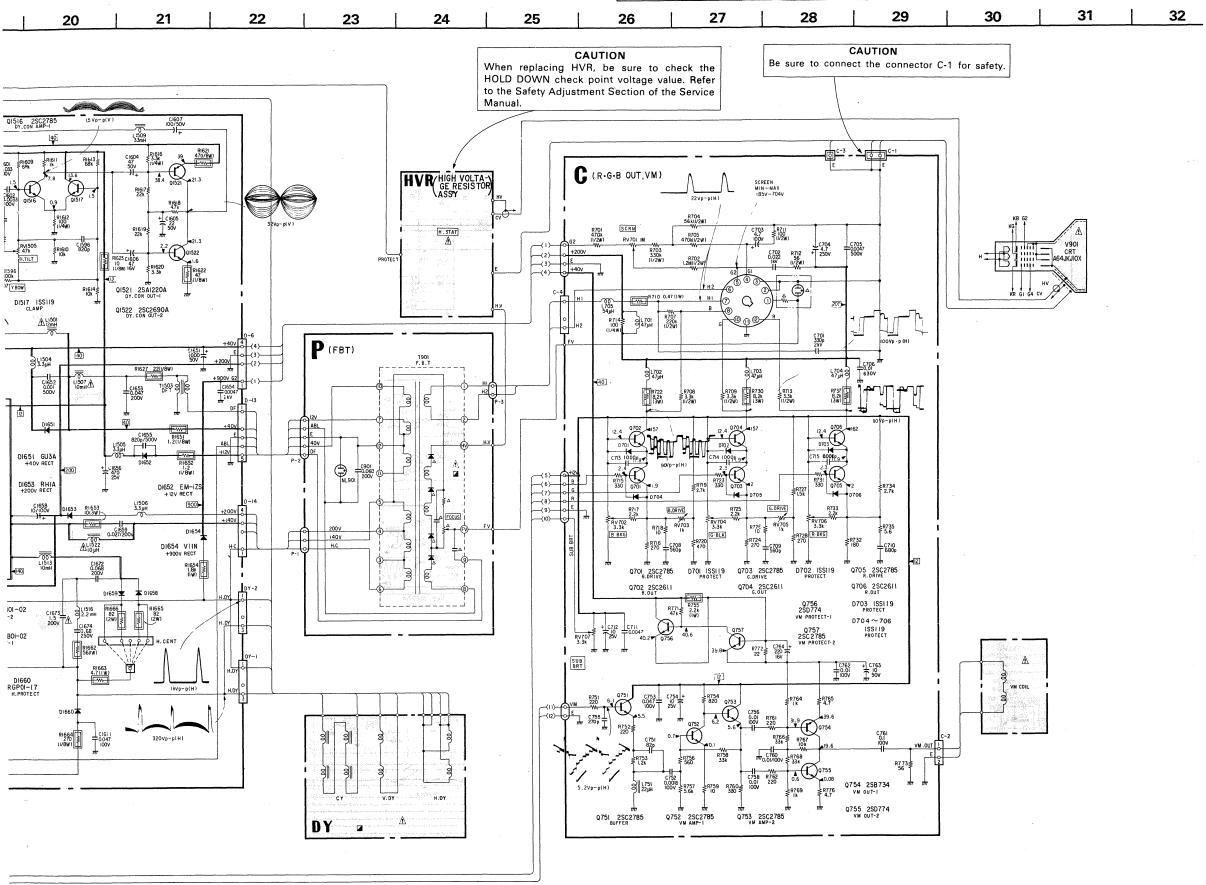


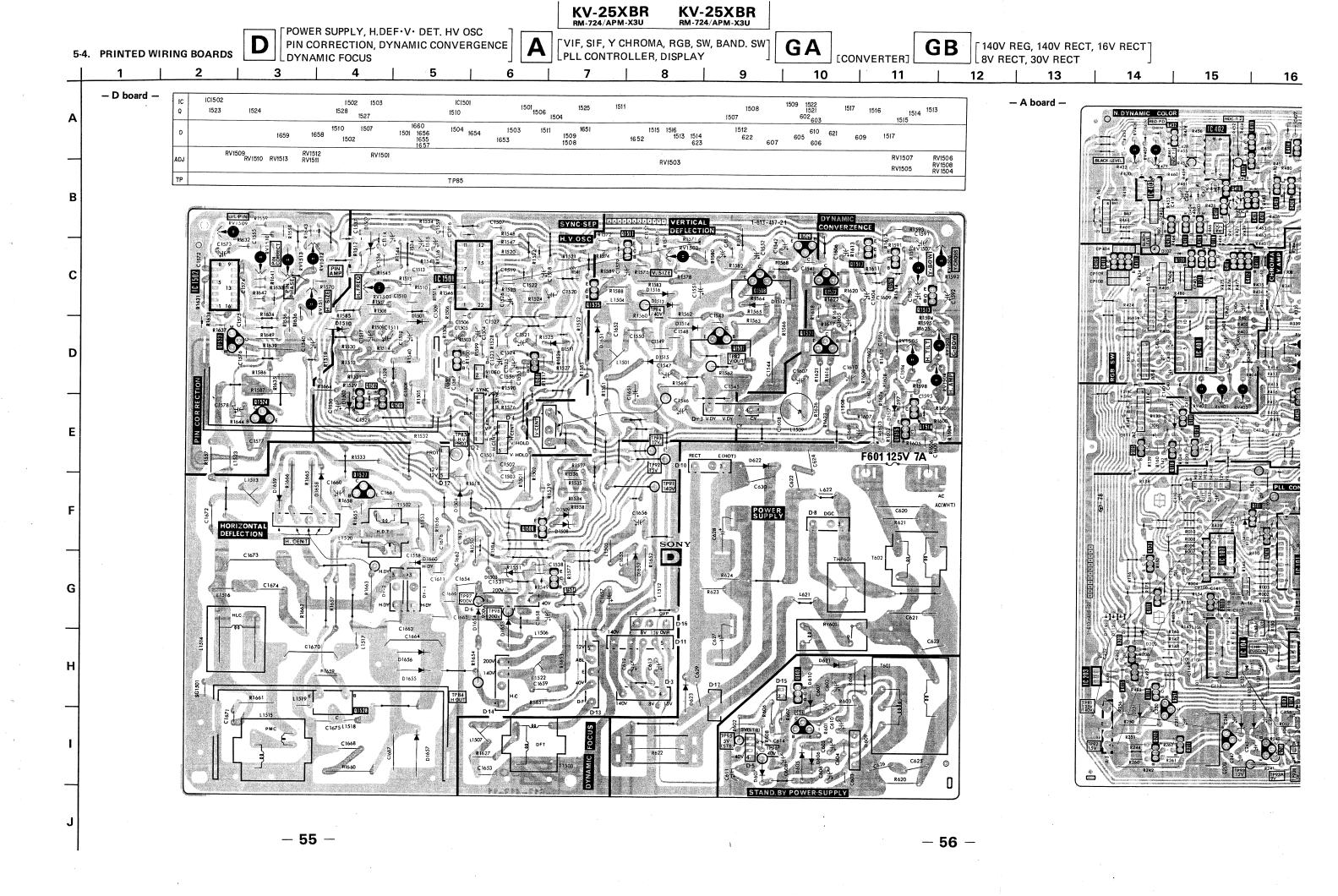


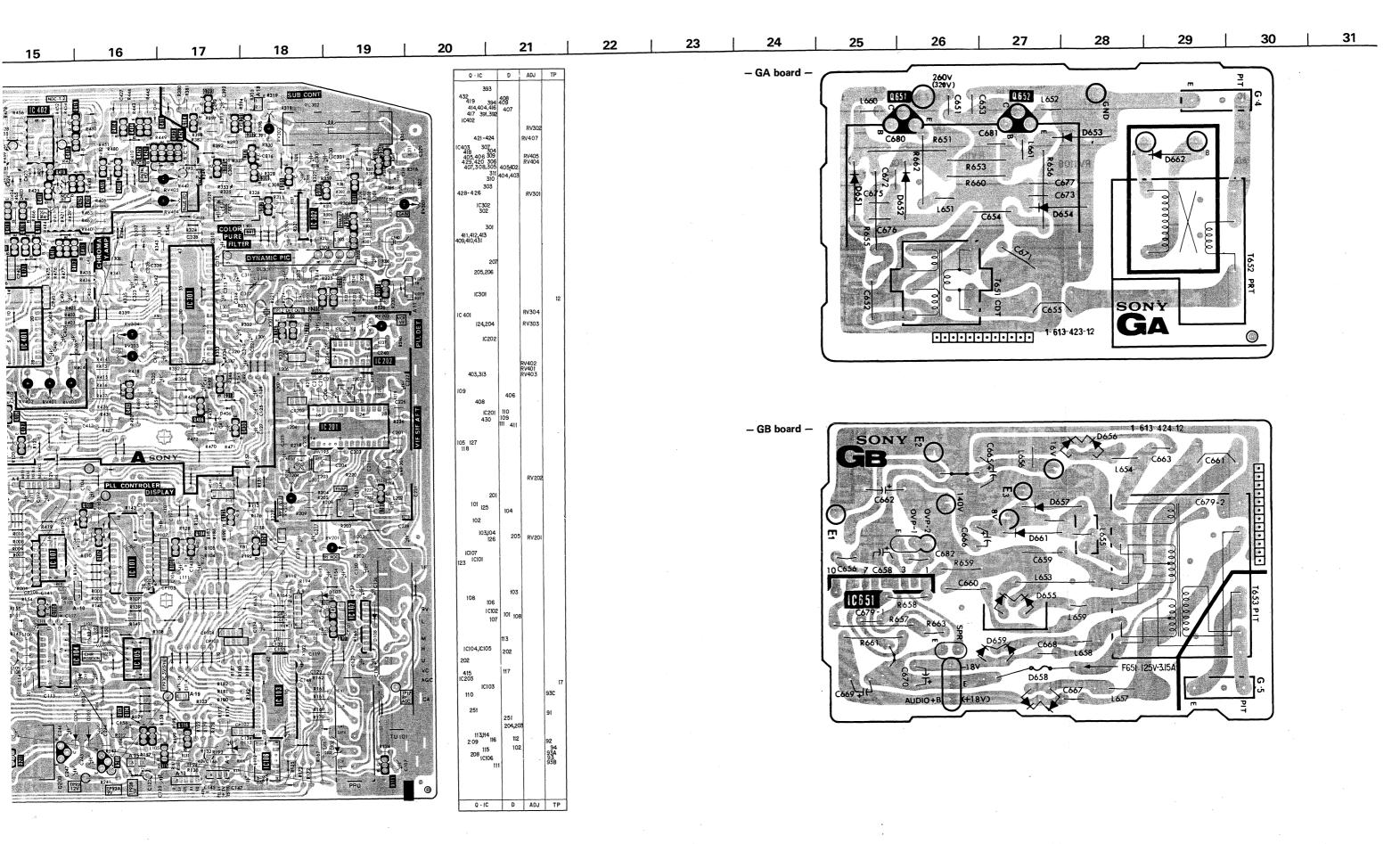
Q753 2SC2785

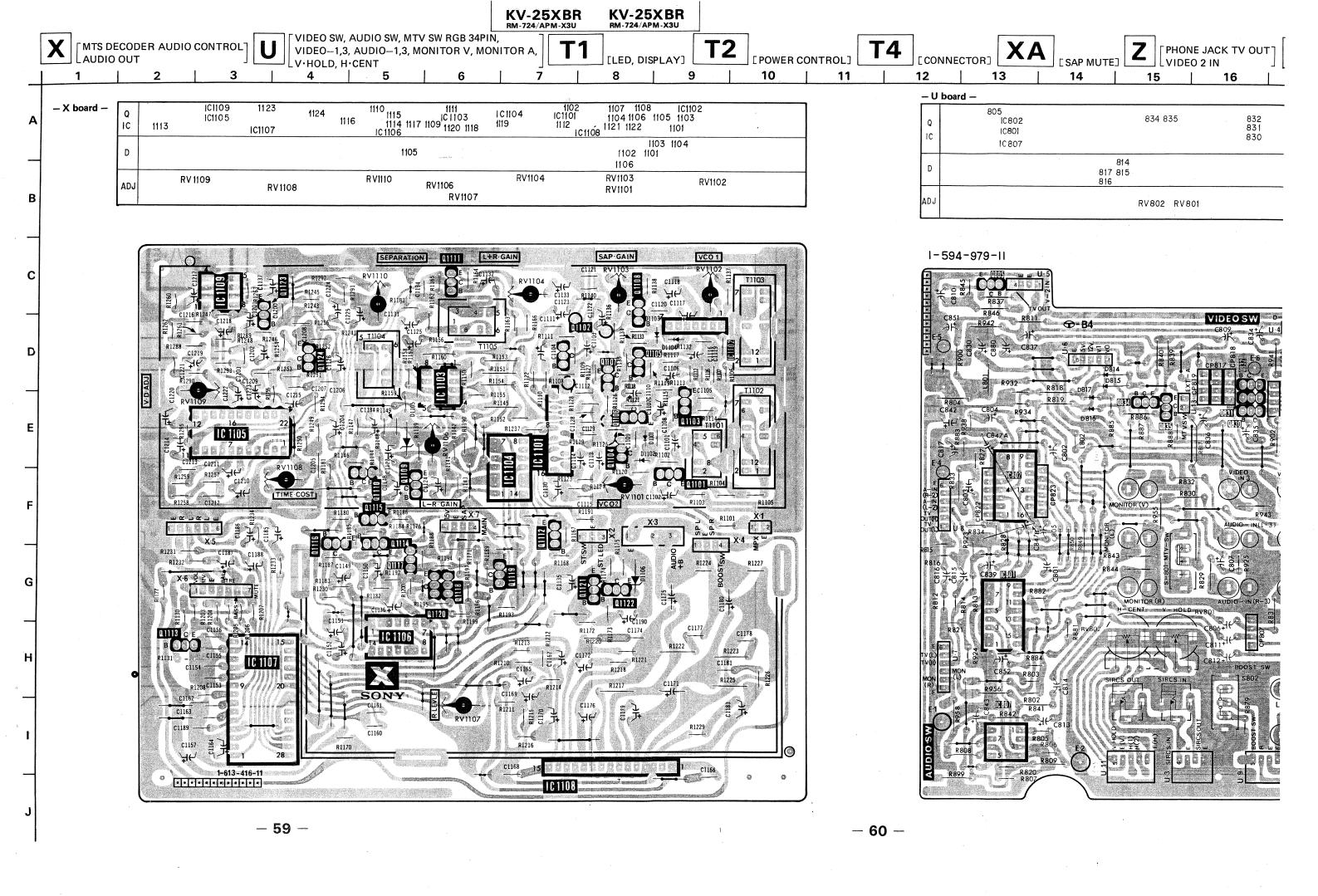
Q752 2SC2785 VM AMP-1

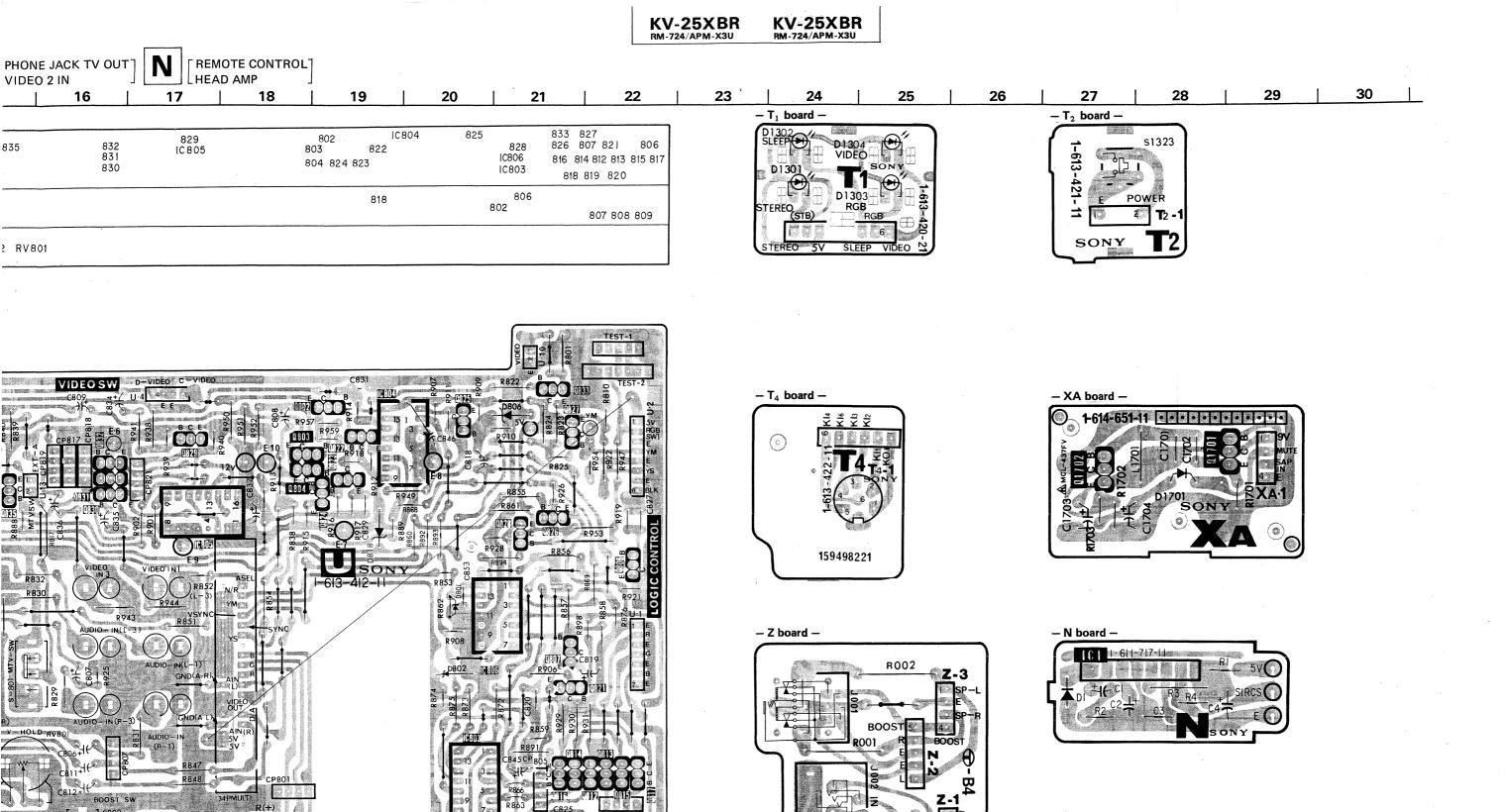
Q751 2SC2785

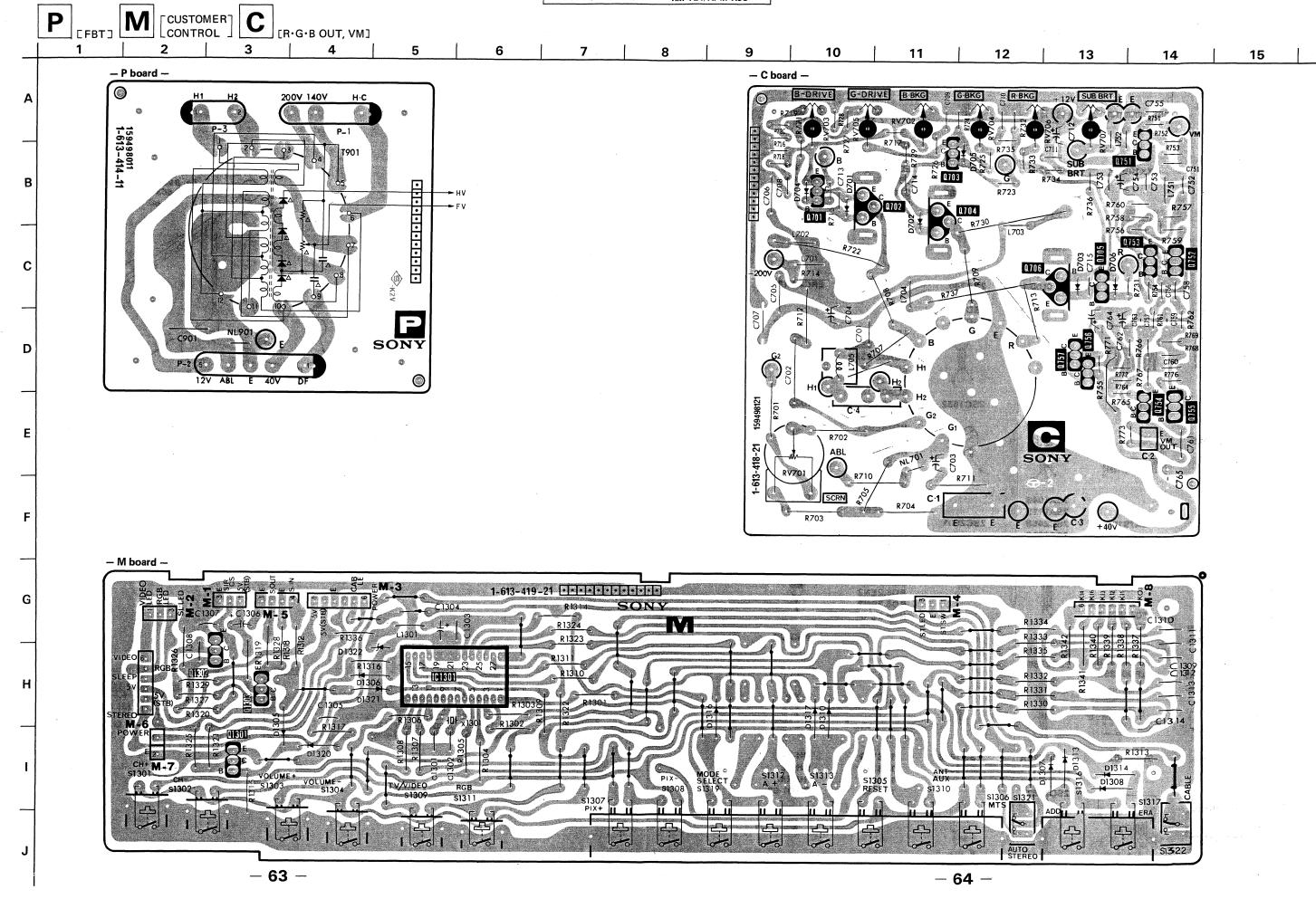












#### 5-5. SEMICONDUCTORS

5-5. SEMICOND	UCTORS					
AN6291 CX530-507N CX-848	CX-7958 μPC1377C	TA7133P	2SA733 2SC1363	2SD1497	CTL-12S CTU-24S	S1VB10-S S1VB20
42 40 33 35 75 22 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	22 12 12 12 12 12 11 11 (Top view)	1 2 3 4 5 6 7	E C B	B C E	anode cathode	
AN78L05 NJM78L05A	CXK1001P	TL4558P-Β μPC4558C	2SB734 2SC2958 2SC2959	10E2 EQA02-12B5 EQA02-32A ES1F GP08D	EM-1ZS RM2CS	SR632D
OUT COMMON	1413121110 9 8	8 7 6 5 1 2 3 4 (Top view)	2SD774	HZT33-02 RGP01-17	cathode	anode
CX10026	DM-21	μ <b>PC78L05A</b>	2SB740 2SC1475 2SD788	anode	ERC26-15S	SY432D
(Top view)	WWW. 1	OUT CHO W	2SD789	1S1555 EQA02-05A5 EQA02-05F5 EQA02-06A5 EQA02-06D5	cathode	anode cathode
CX20014A	LA3375	2SA1026	2SC1652	EQA02-10B5 RD10EN3	ERD29-08J	V19E
CX20100 CX20125 CX526-025	, MAMAMAMANA MANA MANA MANA MANA MANA MA	E C B	BCE	RD13EN2 RD24EBZ7 RD33EB2 RD33EB3 RD3.6E-N1 RD3.6E-N2 RD3.9EN2	cathode	anode
(Top view)  CX20106	LA7910	2SA1048 2SA1115 2SC2458 2SC2603 2SC2669	28C2901	RD4.7EN2 RD5.6EB2 RD5.6EBZ7S RD5.6EL2 RD5.6EN1	GH3F GU-3A U05E U05G V11N	
1 2 3 4 5 6 7 8 CX20139	MC14053BC	P	E B C	RD5.6EN2 RD5.6EN3 RD6.2EN1 RD6.2EN2 RD6.2EN3 RD6.2E-B	cathode	
SN74LS05N SN74LS09N TC4066BP TC4071BP	TC4053BP TDA1082 μPD4052BC μPD4053BC	2SA1175 2SC2785 2SC2785F	2SC3163 2SC3317		РН302В	
μPD4066BC μPD4071BC	μPD6326C  16151413121110 9  1 2 3 4 5 6 7 8  (Top view)	lector side		cathode	carhode	
(Top view) CX23040	STK-4362	2SA1220A 2SC2611 2SC2690A	2SD1406 2SD880	1SS119 1SS120 1SS133	RH-1A RH-1Z RU-2M SIB01-02	
innininininininininininininininininini	1 2 3 5 7 7 9 111 13 14 15 4 6 8 10 12 (Marking side view)	2SC2752 letter side	B C E	1SS148  cathode	cathode	

#### **SECTION 6 EXPLODED VIEWS**

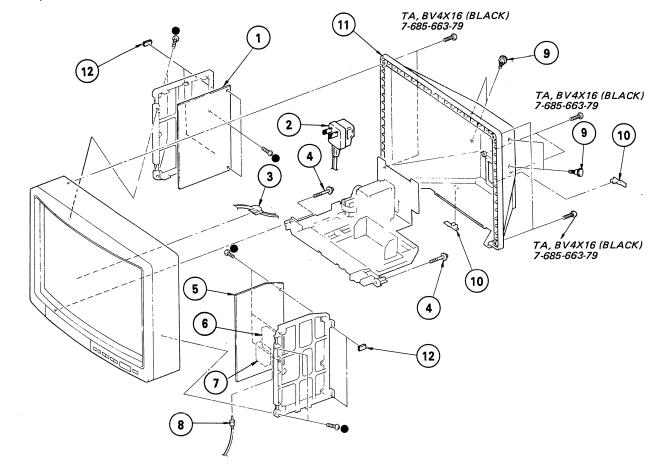
#### NOTE:

- NOTE:
   Items with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

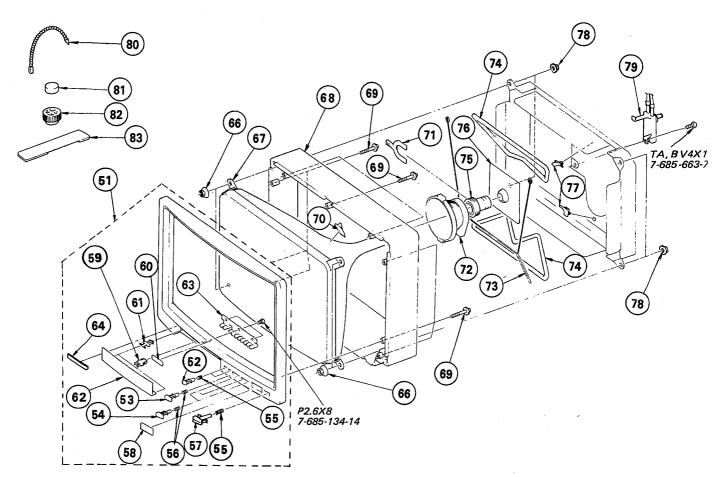
#### 6-1. BACK COVER

#### • : TA, BV3X127-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
3 <u>/</u> 4 5	A.1-557-761-11 A.*4-374-307-01 4-319-520-00 *A-1295-916-A	D BOARD, COMPLETE CORD, POWER HOLDER, CORD, AC SCREW, SPECIAL (+PW4X30) A BOARD, COMPLETE TUNER, ET (BT-896)		8 9 10 11	*1-557-056-00 X-4374-104-1 4-329-127-00	SCREW (B) ASSY, ORNAMENTAL CLAMP, CORD COVER ASSY, BACK	9,10

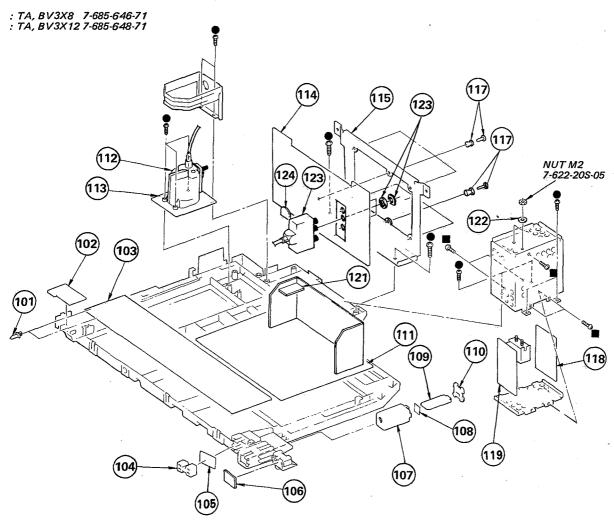
#### 6-2. CRT



<u>No∙</u>	Part No.	<u>Description</u>	<u>Remark</u>	No.	Part No.	Description	<u>Remark</u>
51	X-4374-304-1		52-64	69 70	4-319-520-00 3-703-003-00	SCREW, SPECIAL (+PW4X30) SPACER, DY	
52	X-4374-101-1			71		MAGNET. BMC	
53 54	X-4374-102-1 X-4374-103-1			72	A. 1-451-255-11	DEFLECTION YOKE (SY=164)	
54 55	3-571-847-00	SPRING, COMPRESSION		73	4-303-774-XX		Apprenticulation of the second
56	3-561-888-02			<b>174</b>	A. 1-426-059-31	COIL, DEGAUSSING	
57	X-4374-301-1			75	A. 1-452-315-21	CRT NECK ASSY (NA303)	The state of the
58	*4-374-135-21	PLATE, TRANSPARENT		76		C BOARD, COMPLETE	
- 59	4-352-034-00	CATCHER, PUSH		77	*4-371-629-01	STOPPER, WIRE	
60	4-374-115-01	EMBLEM, SONY		78		FLANGE NUT, (B) 5MM	Rechespending the
61	3-662-365-00	SHAFT (S), DOOR				RESISTOR ASSY, HIGH-VOLTAG	ar same 12
62	4-374-127-21	DOOR, CONTROL	•	80		CLIP, LEAD WIRE MAGNET, DISK: 10MM ø	
63	4-374-151-01	BUTTON, MULTI		81		MAGNET, BISK; 1041 B	SMM &
64	*4-374-302-01			82		PERMALLOY ASSY, CONVERGEN	
66	4-330-305-00	NUT, SPECIAL	villariya Siyl	03	X=4300=31Z=0	PENNALLOT ASST, CONTENUEN	VL
	A.8-736-651-05		41404.004.500				
68	X-4374-302-1 X-4374-302-2	CABINET ASSY (FOR PLUM)		1			
	A-43/4+3U2-2	CADINEL VOOL (LOW DEIGE)		1			

The components identified by shading and mark A are critical for safety.
Replace only with part number specified. 

#### 6-3. CHASSIS



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101 102 103 104 105 106 107 108 109 110	*1-613-413-11 *1-613-419-21 *4-374-112-01 *1-613-420-21 *1-613-421-11 *4-342-117-00 *4-333-624-00 *1-611-717-11 *4-342-118-00	M BOARD CAP, LED TI BOARD T2 BOARD CASE, SHIELD (MAIN), R FILM (N), SPECIAL		113 114 115 117 118 119 121 122	*4-374-310-01 4-374-303-01 *1-613-424-11 *1-613-423-11 *1-614-651-11 3-845-490-00	P BOARD U BOARD, COMPLETE HOLDER, TERMINAL BOARD RIVET, NYLON GB BOARD GA BOARD XA BOARD WASHER SELECTOR, ANTENNA	

T1

**T2** 

P

**T4** 

GA

GB

## SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

- Items marked "x" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS • MF : ארע, PF : אעע

RESISTORS

All resistors are in ohms
 F: nonflammable

COILS

• MMH ; mH, UH ; بH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
•	*1-613-420-21	T1 BOARD				C681	1-102-030-00	CERAMIC	330PF	10%	500V
	045 701 00	HOLDED LED				j	DIO	<u>DE</u>		•	
,	*4-345-701-00	HULUER, LED				D651	8-719-301-18				
	DIO	DE				D652 D653	8-719-901-93 8-719-301-18				
D1301 D1302	8-719-106-34 8-719-106-34					D654	8-719-901-93	DIODE V19E			
D1303	8-719-114-34	DIODE SY432D					CON	NECTOR			
	8-719-114-34					G4	*1-508-765-00	3P PLUG (M)			
*****	*****	*****	*****	******	******		COI	L			
	*1-613-421-11	T2 BOARD				L651		— COIL, ARE-CO	DE		
						L652	1-425-612-00	COIL, ARE-CO	RE		
	SWI	<u>TCH</u>				L660 L661		COIL, ARE-CO			
\$1323 <b>∧</b>	<b>, 1-</b> 554-303-11	SWITCH, KEY	BOARD				TRA	NSISTOR			
*****	*****	*****	******	*****	*****	ı	. —		502162		
	*1-613-414-11	P BOARD				Q651 Q652	8-729-902-00	TRANSISTOR 2 TRANSISTOR 2			
		*****					RES	ISTOR	•		
	CAP	AC I TOR				D651	 _1-214-597-61	METAL NYTHE	. 100K 5% -	- 2u	, E
C901	1-108-431-00	MYLAR	0.068MF	10%	200V	R653	1-202-637-00	SOLID		1/2W	
	NEO	N LAMP				R656	<b>∆</b> 1-206-439-61 1-206-439-00	METAL OXIDE	1 5% 1 5%	2W	F F
NI 901	1-519-237-11	LAMP. NEON	•			R660	1-202-637-00	SOLID	470K 5%	1/2W	
	*****		*****	******	*****	R662	1-207-451-00	WIREWOUND	0.1 10%	1/2W	
							TRA	NSFORMER			
	*1-613-422-11	T4 BOARD				T651	<u></u> 1-421-695-11	CDT	20070		Harrich House of the co
	1-562-684-11	SOCKET DIN	6P			T652	<u></u> ∆1-421-710-11	PRT			
	*********					*****	*****	******	*****	*****	*****
*****	*****	*****					*1-613-424-11				
	*1-613-423-11	GA BOARD *******						*****			
	4-374-104-01	HUIVED ID				F 651	1-532-595-11 *1-533-146-00	FUSE, GLASS TO	JBE 125V 3.1	5A	
	4-374-104-01							•			
	CAP	AC ITOR					CAP	<u>ACITOR</u>			
C651	1-102-038-00		0.001MF		500V	C656 C658	1-106-196-00 1-123-356-00		0.01MF 10MF	10% 20%	100V 50V
C652	1-136-103-00	FILM	0.1MF	5%	200V	C659	1-129-710-00 1-129-710-00	FILM	0.0047MF 0.0047MF	10% 10%	63 O V 63 O V
C 653 C 654	1-102-038-00 1-136-103-00		0.001MF 0.1MF	5%	500V 200V	C660 C661	1-136-240-11		0.0047FF	5%	1K V
C655	1-136-131-00	,FILM	0.12MF	5%	400V	C662		ELECT(BLOCK)	560MF	20%	160V
C672	1-102-038-00 1-102-038-00		0.001MF 0.001MF		500V 500V	C663 C664	1-102-038-00 1-102-038-00		0.001MF 0.001MF		500V 500V
C673 C675	1-102-038-00	CERAMIC	0.001MF		500V	C665	1-123-338-00	ELECT	2200MF	20%	25V
C677 C680	1-102-038-00 1-102-030-00	CERAMIC CERAMIC	0.001MF 330PF	10%	500V 500V	C666	1-123-324-00		1000MF	20%	16V
			•			C 667	1-102-038-00	CERAMIC	0.001MF		500V



C669 1-123-363-00 ELECT 470MF 20% 50V RESISTOR  DIODE  R1 1-247-799-00 CARBON 47 5% 1/6W R2 1-247-775-00 CARBON 4.7 5% 1/6W R3 1-247-775-00 CARBON 4.7 5% 1/6W R3 1-214-784-00 METAL 200K 1% 1/4W *4-347-706-00 HEAT SINK (TR), D655 R4 1-247-863-00 CARBON 22K 5% 1/6W	***
R2 1-247-775-00 CARBON 4.7 5% 1/6W D655 8-719-300-09 DIODE CTU-24S R3 1-214-784-00 METAL 200K 1% 1/4W *4-347-706-00 HEAT SINK (TR), D655 R4 1-247-863-00 CARBON 22K 5% 1/6W	***
*4_347_706-00 HEAT SINK (TR), D655 R4 1-247-863-00 CARBON 22K 5% 1/6W	***
	***
D656 8-719-301-09 DIODE CTL-12S D657 8-719-302-00 DIODE RU-2M D658 8-719-301-09 DIODE CTL-12S	
*A-1295-916-A A BOARD, COMPLETE ***********************************	
CONNECTOR  *I-551-382-00 CABLE P-P	
G5 *1-508-765-00 3P PLUG (M)  CONNECTOR	
MODULE   A1 *1-564-440-11 PLUG, CONNECTOR (2.5MM) 4P	
IC651A. 1-235-445-11 MODULE, POWER (DM-21)  A2 *1-564-444-11 PLUG, CONNECTOR (2.5MM) 8P  A3 *1-508-766-00 4P PLUG (M)	
COIL   A6	
L653 1-407-780-00 COIL, SPOOK CHOKE L654 1-407-365-00 COIL, CHOKE A8 *1-564-443-11 PLUG, CONNECTOR (2.5MM) 7P	
L655 1-407-690-00 MICRO INDUCTOR 5.6UH  A9 *1-564-442-11 PLUG, CONNECTOR (2.5MM) 6P L656 1-459-406-00 COIL (WITH CORE)  A10 *1-564-354-21 PLUG, CONNECTOR (2.5MM) 3P	
L657 1-407-365-00 COIL, CHOKE (A11 *1-564-440-11 PLUG, CONNECTOR (2.5MM) 4P  A12 *1-564-444-11 PLUG, CONNECTOR (2.5MM) 8P	
L659 1-407-780-00 COIL, SPOOK CHOKE	
A13 *1-564-441-11 PLUG, CONNECTOR (2.5MM) 5P  RESISTOR  A14 *1-564-443-11 PLUG, CONNECTOR (2.5MM) 7P	
A15 *1-564-354-00 PLUG, CONNECTOR (2.5MM) 3P  R657 A1-215-969-51 METAL 18K 1W A16 *1-564-442-11 PLUG, CONNECTOR (2.5MM) 6P	
R658 A1-211-427-11 CARBUN 100 5% 1/8W F A18 *1-564-353-00 PLUG, CONNECTOR (2.5MM) 2P	
R661 <u>Al-202-657-15</u> SOLID 3:3M 5% 1/2W A19 *1-564-353-00 PLUG, CONNECTOR (2.5MM) 2P R663 <u>Al-215-968-21 METAL 15K IW</u>	
TRANSFORMER CAPACITOR	
C101 1-101-888-00 CERAMIC 68PF 5% 50V C102 1-101-888-00 CERAMIC 68PF 5% 50V	
C103 1-102-074-00 CERAMIC 0.001MF 10% 50V  ***********************************	
C106 1-123-380-00 ELECT 1MF 20% 50V	
*1-611-717-11 N BOARD ******* C107 1-123-318-00 ELECT 33MF 20% 16V	
C108 1-101-001-00 CERAMIC 0.001MF 50V CAPACITOR C110 1-123-381-00 ELECT 2.2MF 20% 50V	
C111 1-123-381-00 ELECT 2.2MF 20% 50V C1 1-123-611-00 ELECT 1MF 20% 50V C112 1-123-381-00 ELECT 2.2MF 20% 50V	
C2 1-123-613-00 ELECT 3.3MF 20% 50V C3 1-102-820-00 CERAMIC 330PF 5% 50V C113 1-102-976-00 CERAMIC 180PF 5% 50V	
C4 1-123-821-00 ELECT 47MF 20% 16V C114 1-102-976-00 CERAMIC 180PF 5% 50V C116 1-123-369-00 ELECT 4.7MF 20% 25V	
DIODE   C117 1-101-880-00 CERAMIC 47PF 5% 50V   C118 1-101-884-00 CERAMIC 56PF 5% 50V	
D1 8-719-110-32 D10DE PH302B C119 1-102-976-00 CERAMIC 180PF 5% 50V	
IC C120 1-102-976-00 CERAMIC 180PF 5% 50V	
C121 1-101-003-00 CERAMIC 0.0047MF 50V   C122 1-101-004-00 CERAMIC 0.01MF   C122 1-101-004-00 CERAMIC 0.01MF 50V   C122 1-101-004-00 CERAMIC 0.01MF   C122 1-101-004-00 CERAMI	
C123 1-123-356-00 ELECT 10MF 20% 16V	



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Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
C124 C125 C126 C127 C128	1-123-356-00 1-123-380-00 1-123-380-00 1-123-380-00 1-123-380-00	ELECT ELECT ELECT ELECT ELECT	10MF 1MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	C221 C222 C223 C226 C228	1-161-013-00 1-123-379-00 1-123-356-00 1-102-121-00 1-123-330-00	CERAMIC ELECT ÉLECT CERAMIC ELECT	0.01MF 0.47MF 10MF 0.0022MF 22MF	10% 20% 20% 10% 20%	25V 50V 16V 50V 16V
C129 C130 C131 C132 C133	1-119-129-00 1-123-324-00 1-123-318-00 1-101-003-00 1-101-003-00	ELECT ELECT ELECT CERAMIC CERAMIC	100MF 1000MF 33MF 0.0047MF 0.0047MF	20% 20%	16V 16V 16V 50V 50V	C231 C232 C233 C234 C235	1-102-121-00 1-102-959-00 1-102-959-00 1-123-379-00 1-123-379-00	CERAMIC CERAMIC CERAMIC ELECT ELECT	0. 0022MF 22PF 22PF 0. 47MF 0. 47MF	10% 5% 5% 20% 20%	50V 50V 50V 50V 50V
C134 C135 C137 C138 C139	1-123-333-00 1-101-003-00 1-123-356-00 1-123-356-00 1-123-356-00	ELECT CERAMIC ELECT ELECT ELECT	100MF 0.0047MF 10MF 10MF 10MF	20% 20% 20% 20%	16V 50V 16V 16V	C236 C237 C238 C239 C240	1-123-318-00 1-102-121-00 1-123-381-00 1-102-752-61 1-121-257-00	ELECT CERAMIC ÉLECT CERAMIC ELECT	33MF 0.0022MF 2.2MF 30PF 4.7MF	20% 10% 20% 5%	16V 50V 50V 50V 16V
C140 C141 C142 C143 C144	1-101-001-00 1-101-002-00 1-106-190-00 1-123-309-00 1-101-004-00	CERAMIC CERAMIC MYLAR ELECT CERAMIC	0.001MF 0.0022MF 0.0056MF 330MF 0.01MF	10% 20%	50V 50V 100V 10V 50V	C241 C243 C244 C245 C246	1-102-973-00 1-102-816-00 1-123-318-00 1-123-333-00 1-123-318-00	CERAMIC CERAMIC ELECT ELECT ELECT	100PF 120PF 33MF 100MF 33MF	5% 5% 20% 20% 20%	50V 50V 16V 16V 16V
C145 C146 C147 C149 C150	1-101-004-00 1-101-004-00 1-101-001-00 1-101-004-00 1-101-004-00	CERAM IC CERAM IC CERAM IC CERAM IC CERAM IC	0.01MF 0.01MF 0.001MF 0.01MF 0.01MF		50V 50V 50V 50V 50V	C247 C248 C249 C250 C251	1-123-333-00 1-102-074-00 1-123-380-00 1-123-318-00 1-123-333-00	ELECT CERAMIC ELECT ELECT ELECT	100MF 0.001MF 1MF 33MF 100MF	20% 10% 20% 20% 20%	16V 50V 50V 16V 16V
C151 C152 C153 C154 C155	1-119-135-00 1-123-356-00 1-123-333-00 1-123-356-00 1-161-323-00	ELECT ELECT ELECT ELECT CERAMIC	220MF 10MF 100MF 10MF 0.001MF	20% 20% 20% 10%	16V 16V 16V 16V 50V	C252 C301 C302 C303 C304	1-123-306-00 1-123-356-00 1-102-962-00 1-101-884-00 1-123-380-00	ELECT ELECT CERAMIC CERAMIC ELECT	47MF 10MF 30PF 56PF 1MF	20% 20% 5% 5% 20%	6. 3V 16V 50V 50V 50V
C156 C157 C158 C159 C201	1-123-356-00 1-123-380-00 1-106-180-00 1-102-824-00 1-102-121-00	ELECT ELECT MYLAR CERAMIC CERAMIC	10MF 1MF 0.0022MF 470PF 0.0022MF	20% 20% 10% 5% 10%	16V 50V 100V 50V 50V	C305 C306 C307 C308 C309	1-123-380-00 1-123-356-00 1-123-369-00 1-102-129-00 1-102-973-00	ELECT ELECT ELECT CERAMIC CERAMIC	1MF 10MF 4.7MF 0.01MF 100PF	20% 20% 20% 10% 5%	50V 25V 25V 50V 50V
C202 C203 C204 C205 C206	1-102-128-00 1-102-851-00 1-102-525-00 1-123-318-00 1-123-318-00	CERAMIC CERAMIC CERAMIC ELECT ELECT	0.0082MF 15PF 68PF 33MF 33MF	10% 5% 5% 20% 20%	50V 50V 50V 16V 16V	C310 C311 C312 C313 C314	1-123-330-00 1-161-047-00 1-123-447-00 1-123-447-00 1-101-004-00	ELECT CERAMIC ELECT ELECT CERAMIG	22MF 0.0047MF 0.22MF 0.22MF 0.01MF	20% 10% 20% 20%	16V 50V 50V 50V 50V
C207 C208 C209 C211 C212	1-101-884-00 1-161-059-00 1-102-824-00 1-102-121-00 1-101-004-00	CERAM IC CERAM IC CERAM IC CERAM IC CERAM IC	56PF 0.047MF 470PF 0.0022MF 0.01MF	5% 10% 5% 10%	50V 25V 50V 50V 50V	C315 C316 C317 C318 C319	1-123-356-00 1-101-888-00 1-102-865-00 1-102-074-00 1-123-379-00	ELECT CERAMIC CERAMIC CERAMIC ELECT	10MF 68PF 8PF 0.001MF 0.47MF	20% 5% 0.5PF 10% 20%	16V 50V 50V 50V 50V
C213 C214 C215 C216 C217	1-161-059-00 1-102-121-00 1-102-121-00 1-102-525-00 1-123-586-00	CERAMIC CERAMIC CERAMIC CERAMIC ELECT	0.047MF 0.0022MF 0.0022MF 68PF 0.1MF	10% 10% 10% 5% 20%	25V 50V 50V 50V 50V	C320 C321 C322 C323 C324	1-121-806-00 1-123-379-00 1-123-286-00 1-123-379-00 1-123-357-00	ELECT ELECT ELECT ELECT ELECT	10MF 0. 47MF 0. 33MF 0. 47MF 22MF	20% 20% 20% 20%	16V 50V 50V 50V 50V
C218 C219 C220	1-123-586-00 1-102-634-11 1-102-637-00	CERAMIC	0.1MF 8PF 12PF	20% 0.5PF 5%	50V 50V 50V	C325 C326 C328	1-123-380-00 1-102-953-00 1-161-265-00	ELECT CERAMIC CERAMIC	1MF 18PF 33PF	20% 5% 5%	50V 50V 50V



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description		Remark
C330 1-123-333-00 C331 1-101-888-0 C332 1-102-965-00 C333 1-123-323-00 C334 1-123-380-00	CERAMIC CERAMIC ELECT	100MF 68PF 39PF 470MF 1MF	20% 5% 5% 20% 20%	16V 50V 50V 16V 50V	D205 D251 D402 D403 D404	8-719-911-19 8-719-102-71 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD5.6E=N2 DIODE 1SS119 DIODE 1SS119	2	
C338 1-101-884-0 C391 1-106-196-0 C392 1-102-971-0 C393 1-123-356-0 C401 1-123-356-0	MYLAR DEERAMIC DELECT	56PF 0.01MF 82PF 10MF 10MF	5% 10% 5% 20% 20%	50V 100V 50V 16V 16V	D405 D406 D407 D408 D409	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
C402 1-123-356-0 C403 1-123-356-0 C404 1-123-330-0	) ÉLÉCT ) ÉLÉCT	10MF 10MF 22MF 0.0047MF	20% 20% 20%	16V 16V 16V 50V	D411	8-719-911-19 <u>DEL</u>	DIODE 1SS119 AY LINE		
C405 1-101-003-0 C406 1-123-379-0		0. 47MF	20%	50V			DELAY LINE, 1H DELAY LINE, Y		
C407 1-123-379-0 C408 1-123-379-0 C410 1-101-004-0	ELECT	0.47MF 0.47MF 0.01MF	20% 20%	50V 50V 50V		<u>IC</u>			
C411 1-123-356-0 C412 1-123-369-0		10MF 4.7MF	20% 20%	50V 50V	IC 101 IC 102 IC 103	8-759-103-07 8-759-800-65 8-759-912-82	IC CX526-025 IC LA7910 IC CX530-507N		
C413 1-106-184-0 C417 1-123-379-0	ELECT	0.0033MF 0.47MF 0.0047MF	10% 20%	100V 50V 50V	IC104	8-759-909-50 8-759-140-71	IC CX7958		
C418 1-101-003-0 C419 1-123-332-0 C421 1-123-380-0	) ELECT	47MF 1MF	20% 20%	16V 50V	IC 106 IC 107 IC 201	8-752-320-11 8-759-102-28 8-752-001-41	IC CXK1001P IC UPD6326C IC CX20014A		
C423 1-102-820-0 C424 1-123-356-0	) ELECT	330PF 10MF 10MF	5% 20% 20%	50V 16V 16V	IC 202 IC 203	8-752-001-41 8-752-013-90 8-759-108-05	IC CX20139		
C426 1-123-356-0 C427 1-101-001-0 C428 1-101-884-0	CERAM IC	0.001MF 56PF	5%	50V 50V	IC 301 IC 302 IC 401	8-758-480-00 8-759-913-11 8-752-010-00	IC CX848 IC CX20125 IC CX20100		
<u>F</u>	ILTER				IC402		IC MC14053BCP		
CF201 1-409-332-0 CF202 1-527-943-0						<u>C01</u>	<u>L</u>		
<u>T</u>	RIMMER				L101 L102	1-407-717-00 1-404-538-11	MICRO INDUCTOR	1MMH	
CV316 1-141-147-X	X CAP, TRIMME	₹			L103	1-408-398-00 1-408-403-00	MICRO INDUCTOR MICRO INDUCTOR	3. 3UH	
<u>D</u>	IODE				L105	1-408-403-00	MICRO INDUCTOR	3. 3UH	
D102 8-759-300-4 D103 8-719-102-6 D104 8-719-102-6	9 DIODE 1SS119 2 IC HZT33-02 0 DIODE RD3-99 0 DIODE RD3-99 9 DIODE 1SS119	E-N2 E-N2			L107 L108 L109 L110 L111	1-410-016-11 1-410-016-11 1-408-462-11	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	3. 9UH 3. 9UH 470UH	
D109 8-719-911-1 D110 8-719-911-1 D111 8-719-102-6 D112 8-719-101-0 D113 8-719-911-1	9 DIODE 1SS119 5 DIODE RD4.78 4 DIODE RD33E	9 E-N2 -B2			L112 L201 L202 L203 L204	1-408-408-00 1-408-709-00 1-410-073-11	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	8. 2UH 0. 68UH 0. 22UH	
D202 8-719-911-1 D203 8-719-102-9	DIODE RD5.68 DIODE 1SS119 DIODE RD10E DIODE RD13E	9 -N3			L205 L206 L207 L208	1-408-411-00 1-408-402-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	15UH 2.7UH	



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	<u>1</u>	Remark
L301 L302 L303 L304 L305	1-408-450-11 1-408-416-00 1-404-540-11 1-408-411-00	MICRO INDUCTOR 47UH MICRO INDUCTOR 39UH		Q309 Q310 Q311 Q313 Q391	8-729-245-83 8-729-245-83 8-729-245-83 8-729-204-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SC 2458 2SA 1048GR	
L306 L307 L308 L309 L310	1-408-398-00 1-408-163-00 1-408-456-11	MICRO INDUCTOR 1.2UH MICRO INDUCTOR 1.2UH MICRO INDUCTOR 5.6MMH MICRO INDUCTOR 150UH MICRO INDUCTOR 10UH		Q392 Q393 Q394 Q403 Q404	8-729-245-83 8-729-245-83 8-729-245-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	25C 2458 2SC 2458 2SA 1048GR	
	TRA	NSISTOR		Q405	8-729-204-83			
Q101 Q102 Q103 Q104	8-729-245-83 8-729-245-83	TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC1458		Q406 Q407 Q408 Q409	8-729-204-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR	2SA1048GR 2SC 2458	
Q105 Q106 Q107 Q108	8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458  TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458		Q410 Q411 Q412 Q413 Q414	8-729-245-83 8-729-204-83 8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SA1048GR 2SA1048GR	
Q109 Q110 Q111	8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		Q415 Q416 Q417 Q418	8-729-245-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SA 1048GR 2SC 2458	
Q113 Q114 Q115 Q116	8-729-204-83 8-729-204-83	TRANSISTOR 2SA1048GR TRANSISTOR 2SA1048GR TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458		Q419 Q419 Q420 Q421	8-729-245-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR	2SC 2458 2SA 1048GR	•
Q118 Q123 Q124 Q125	8-729-245-83 8-729-245-83 8-729-204-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR		Q422 Q423 Q424	8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	2\$A1048GR 2\$A1048GR 2\$A1048GR	
Q126 Q127 Q201 Q202	8-729-266-93 8-729-204-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2669 TRANSISTOR 2SA1048GR		Q426 Q427 Q428 Q429 Q430	8-729-245-83 8-729-245-83 8-729-245-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SC 2458 2SA 1048GR	
Q204 Q205	8-729-204-83			Q431 Q432	8-729-245-83 8-729-204-83	TRANSISTOR TRANSISTOR	2SC2458 2SA1048GR	
Q206 Q207 Q208	8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SD880			RES	ISTOR		
Q209 Q251 Q301 Q302	8-729-201-78 8-729-288-02 8-729-245-83	TRANSISTOR 2SD1406 TRANSISTOR 2SD880  TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		R001 R002 R003 R004 R005	1-247-127-00 1-247-117-00 1-247-117-00 1-247-843-00 1-247-843-00	CARBON CARBON	680 5% 270 5% 270 5% 3.3K 5% 3.3K 5%	1/4W 1/4W 1/4W 1/6W 1/6W
Q303 Q304 Q305	8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 25C2458 TRANSISTOR 25C2458 TRANSISTOR 25C2458 TRANSISTOR 25C2458		R006 R007 R008 R009	1-247-163-00 1-246-485-25 1-246-485-25 1-247-843-00	C ARB ON C ARB ON C ARB ON	22K 5% 3.3K 5% 3.3K 5% 3.3K 5%	1/4W 1/4W 1/4W 1/6W
Q307 Q308	8-729-245-83	TRANSISTOR 25C2458 TRANSISTOR 25C2458		R010	1-246-485-25	CARBON	3. 3K 5% 220 5%	1/4W 1/4W
	•	•		R014 R015 R016	1-247-115-00 1-247-135-00 1-247-847-00 1-247-155-00	CARBON CARBON	1.5K 5% 4.7K 5% 10K 5%	1/4W 1/4W 1/6W 1/4W



Ref.No. Par	rt No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R107 1-2 R108 1-2 R109 1-2	247-847-00 247-139-00 247-139-00 247-855-00 247-855-00	CARBON CARBON CARBON CARBON CARBON	4.7K 2.2K 2.2K 10K 10K	5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W		R162 R163 R164 R165 R166	1-247-131-00 1-247-131-00 1-247-839-00 1-247-839-00 1-247-077-00	CARB ON CARB ON CARB ON CARB ON CARB ON	1K 1K 2. 2K 2. 2K 3. 3	5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/4W	
R112 1-2 R113 1-2 R114 1-2	247-823-00 247-885-00 247-855-00 247-139-00 247-819-00	CARBON CARBON CARBON CARBON CARBON	470 180K 10K 2. 2K 330	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W		R167 R168 R169 R170 R171	1-206-696-00 1-247-139-00 1-247-155-00 1-247-155-00 1-247-831-00	METAL OXIDE CARBON CARBON CARBON CARBON	22K 2.2K 10K 10K 1K	5% 5% 5% 5% 5%	2W 1/4W 1/4W 1/4W 1/6W	F
R119 1-2 R120 1-2 R121 1-2	247-131-00 247-831-00 247-871-00 247-871-00 247-163-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 47K 47K 22K	5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/4W		R172 R173 R173 R174 R176	1-247-179-00 1-247-155-00 1-247-179-00 1-247-855-00 1-247-891-00	CARBON CARBON CARBON CARBON CARBON	100K 10K 100K 10K 330K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/6W 1/6W	
R124 1-1 R125 1-1 R126 1-1	247-139-00 247-849-00 247-167-00 247-851-00 247-835-00	CARBON CARBON CARBON CARBON CARBON	2. 2K 5. 6K 33K 6. 8K 1. 5K	5% 5% 5% 5%	1/4W 1/6W 1/4W 1/6W 1/6W		R177 R178 R179 R180 R181	1-247-855-00 1-247-139-00 1-247-139-00 1-247-839-00 1-247-839-00	CARBON CARBON CARBON CARBON CARBON	10K 2. 2K 2. 2K 2. 2K 2. 2K	5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R129 1- R130 1- R131 1-	247-857-00 247-855-00 247-167-00 247-887-00 247-153-00	CARBON CARBON CARBON CARBON CARBON	12K 10K 33K 220K 8.2K	5% 5% 5% 5%	1/6W 1/6W 1/4W 1/6W 1/4W		R182 R183 R185 R186 R187	1-247-839-00 1-247-877-00 1-247-855-00 1-247-855-00 1-247-839-00	CARBON CARBON CARBON CARBON CARBON	2. 2K 82K 10K 10K 2. 2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R134 1- R135 1- R136 1-	247-873-00 247-895-00 247-895-00 247-889-00 247-839-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	56K 470K 470K 270K 2•2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R188 R189 R190 R191 R192	1-247-839-00 1-247-839-00 1-247-855-00 1-247-843-00 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	2. 2K 2. 2K 10K 3. 3K 4. 7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R139 1- R140 1- R142 1-	-247-131-00 -247-139-00 -247-139-00 -247-107-00 -247-139-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	1K 2.2K 2.2K 100 2.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R193 R194 R196 R197 R198	1-244-877-51 1-247-871-00 1-247-871-00 1-247-871-00 1-247-863-00	CARBON CARBON CARBON CARBON CARBON	1.5K 47K 47K 47K 47K 22K	5% 5% 5% 5% 5%	1/2W 1/6W 1/6W 1/6W 1/6W	
R145 1- R146 1- R147 1-	-247-855-00 -247-879-00 -247-123-00 -247-123-00 -247-123-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	10K 100K 470 470 470	5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/4W 1/4W		R199 R201 R202 R203 R204	1-247-855-00 1-247-837-00 1-247-857-00 1-247-855-00 1-215-457-00	CARBON CARBON CARBON CARBON METAL	10K 1.8K 12K 10K 33K	5% 5% 5% 5% 1%	1/6W 1/6W 1/6W 1/6W 1/6W	
R150 1- R151 1- R152 1-	-246-485-25 -246-485-25 -247-115-00 -247-871-00 -247-855-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	3. 3K 3. 3K 220 47K 10K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/6W 1/6W		R205 R206 R208 R209 R211	1-215-457-00 1-247-863-00 1-247-883-00 1-247-883-00 1-247-831-00	METAL CARBON CARBON CARBON CARBON	33K 22K 150K 150K 1K	1% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	·
R155 1- R156 1- R157 1-	-247-871-00 -247-871-00 -247-887-00 -247-863-00 -247-871-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	47K 47K 220K 22K 47K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R215 R216 R218 R219 R220	1-247-883-00 1-247-815-00 1-247-845-00 1-247-817-00 1-247-801-00	CARBON CARBON CARBON CARBON CARBON	150K 220 3• 9K 270 56	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R160 1-	-247-889-00 -247-879-00 -247-131-00	CARBON CARBON CARBON	270K 100K 1K	5% 5% 5%	1/6W 1/6W 1/4W		R221 R223 R224	1-247-822-00 1-247-821-00 1-247-830-00	CARBON CARBON CARBON	430 390 910	5% 5% 5%	1/6W 1/6W 1/6W	



Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R225 R226 R227 R228 R229	1-247-827-00 1-247-807-00 1-247-827-00 1-247-833-00 1-247-803-00	CARBON CARBON CARBON	680 100 680 1.2K 68	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R331 R332 R333 R334 R335	1-247-807-00 1-247-821-00 1-247-863-00 1-247-829-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	100 390 22K 820 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R230 R231 R232 R234 R235	1-247-843-00 1-247-846-00 1-247-851-00 1-247-839-00 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	3.3K 4.3K 6.8K 2.2K 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R336 R337 R339 R340 R341	1-247-897-00 1-247-895-00 1-247-819-00 1-247-871-00 1-247-857-00	CARBON CARBON CARBON CARBON CARBON	560K 470K 330 47K 12K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R236 R237 R238 R239 R241	1-247-107-00 1-247-795-00 1-247-847-00 1-247-819-00 1-212-367-00	CARBON CARBON CARBON CARBON METAL OXIDE	100 33 4.7K 330 3.9	5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1W	F	R342 R345 R346 R347 R348	1-247-855-00 1-247-155-00 1-247-115-00 1-247-839-00 1-247-815-00	CARBON CARBON CARBON CARBON CARBON	10K 10K 220 2• 2K 220	5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R242 R243 R244 R245 R250	1-206-495-00 1-247-821-00 1-247-115-00 1-247-831-00 1-206-453-00	MÉTAL OXIDE CÀRBON CÀRBON CÀRBON METAL OXIDE	2.2 390 220 1K 3.9	5% 5% 5% 5% 5%	3W 1/6W 1/4W 1/6W 2W	F F	R349 R350 R351 R352 R353	1-247-871-00 1-247-815-00 1-247-829-00 1-247-155-00 1-247-863-00	CARBON CARBON CARBON CARBON CARBON	47K 220 820 10K 22K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R251 R256 R300 R301 R302	1-247-119-00 1-247-025-00 1-247-807-00 1-247-867-00 1-247-865-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	330 3.9 100 33K 27K	5% 5% 5% 5% 5%	1/4W 1/8W 1/6W 1/6W 1/6W	F	R354 R355 R356 R357 R359	1-246-537-00 1-247-815-00 1-246-517-25 1-247-903-00 1-247-827-00	CARBON CARBON CARBON CARBON CARBON	470K 220 68K 1M 680	5% 5% 5% 5% 5%	1/4W 1/6W 1/4W 1/6W 1/6W	
R303 R304 R305 R306 R307	1-247-833-00 1-247-823-00 1-247-833-00 1-247-835-00 1-247-827-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	1.2K 470 1.2K 1.5K 680	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R360 R361 R362 R363 R364	1-247-827-00 1-247-823-00 1-247-833-00 1-247-819-00 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	680 470 1.2K 330 1.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R308 R309 R310 R311 R312	1-247-827-00 1-247-827-00 1-247-827-00 1-247-833-00 1-247-833-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	680 680 680 1.2K 1.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R365 R366 R367 R377 R380	1-247-837-00 1-247-841-00 1-247-847-00 1-247-123-00 1-247-867-00	CARB ON CARB ON CARB ON CARB ON CARB ON	1.8K 2.7K 4.7K 470 33K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R313 R314 R315 R316 R317	1-247-835-00 1-247-835-00 1-247-833-00 1-247-833-00 1-247-831-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	1.5K 1.5K 1.2K 1.2K 1.K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R381 R382 R391 R393 R394	1-247-867-00 1-247-855-00 1-247-865-00 1-247-815-00 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	33K 10K 27K 220 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R318 R319 R320 R321 R322	1-247-841-00 1-247-841-00 1-247-841-00 1-247-899-00 1-247-865-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	2. 7K 2. 7K 2. 7K 680K 27K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R395 R396 R397 R398 R401	1-247-835-00 1-247-831-00 1-247-855-00 1-247-855-00 1-247-115-00	CARBON CARBON CARBON CARBON CARBON	1.5K 1K 10K 10K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/4W	
R323 R324 R325 R326 R327	1-247-145-00 1-247-119-00 1-247-863-00 1-247-843-00 1-247-845-00	C ARB ON C ARB ON C ARB ON C ARB ON C ARB ON	3.9K 330 22K 3.3K 3.9K	5% 5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/6W		R402 R403 R404 R405 R406	1-247-115-00 1-247-115-00 1-247-849-00 1-247-839-00 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	220 220 5. 6K 2. 2K 1. 2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/6W	
R328 R329 R330	1-247-829-00 1-247-839-00 1-247-831-00		820 2.2K 1K	5% 5% 5%	1/6W 1/6W 1/6W		R408 R410 R411	1-247-839-00 1-215-406-00 1-214-717-00	CARBON METAL METAL	2.2K 240 330	5% 1% 1%	1/6W 1/6W 1/4W	



Ref.No. Part No.	Description		<u>Remark</u>	Ref.No. Part No.	Description	Remark
R412 1-247-831 R414 1-247-179 R416 1-246-523 R417 1-247-163 R418 1-247-855	-00 CARBON -00 CARBON -00 CARBON	1K 5% 1/6W 100K 5% 1/4W 120K 5% 1/4W 22K 5% 1/4W 10K 5% 1/6W	1 1	R477 1-247-131-00 R478 1-247-131-00 R479 1-247-147-00 R480 1-215-406-00 R481 1-247-805-00	CARBON 1K 5% 1/4W CARBON 4.7K 5% 1/4W METAL 240 1% 1/6W	
R419 1-247-179 R420 1-247-847 R421 1-214-717 R422 1-247-163 R423 1-247-871	-00 CARBON -00 METAL -00 CARBON	100K 5% 1/4W 4.7K 5% 1/6W 330 1% 1/4W 22K 5% 1/4W 47K 5% 1/6W	† 4 4	R482 1-247-843-00 R483 1-247-843-00 R486 1-247-815-00 R487B 1-247-804-00 R488 1-247-139-00	CARBON 3.3K 5% 1/6W CARBON 220 5% 1/6W CARBON 75 5% 1/6W	
R424 1-247-131 R425 1-247-839 R426 1-247-177 R427 1-214-753 R428 1-247-885	-00 CARBON -00 CARBON -00 METAL	1K 5% 1/4W 2.2K 5% 1/6W 82K 5% 1/4W 10K 1% 1/4W 180K 5% 1/6W	1 1 1	R490 1-247-863-00 R493 1-247-863-00 <u>VAF</u>		
R429 1-247-129 R431 1-214-753 R435 1-247-115 R436 1-247-115	-00 CARBON -00 METAL -00 CARBON -00 CARBON	820 5% 1/4V 10K 1% 1/4V 220 5% 1/4V 220 5% 1/4V 3.9K 5% 1/4V	4 4 4	RV201 1-228-723-00 RV202 1-228-723-00 RV301 1-228-720-00 RV302 1-228-719-00 RV303 1-228-724-00	RES, ADJ, CERAMIC CARBON 4.7K RES, ADJ, CERAMIC CARBON 1K RES, ADJ, CERAMIC CARBON 470	
R438 1-214-915 R439 1-214-717 R440 1-247-843 R441 1-247-843	-00 METAL -00 METAL -00 CARBON -00 CARBON	120K 1% 1/2V 330 1% 1/4V 3.3K 5% 1/6V 3.3K 5% 1/6V	ሳ ሳ ሳ	RV304 1-228-724-00 RV401 1-228-724-00 RV402 1-228-724-00 RV403 1-228-723-00 RV404 1-228-719-00	RES, ADJ, CERAMIC CARBON 10K RES, ADJ, CERAMIC CARBON 10K RES, ADJ, CERAMIC CARBON 4.7K	
R442 1-247-843 R443 1-247-834 R444 1-247-827 R445 1-247-833 R449 1-247-855 R450 1-247-879	-00 CARBON -00 CARBON -00 CARBON -00 CARBON	3.3K 5% 1/6W 1.3K 5% 1/6W 680 5% 1/6W 1.2K 5% 1/6W 10K 5% 1/6W 100K 5% 1/6W	4 4 4 4	RV407 1-228-722-00	LTER	
R450 1-247-879 R451 1-247-879 R452 1-247-879 R453 1-247-849 R454 1-247-879 R455 1-215-459	0-00 CARBON 0-00 CARBON 0-00 CARBON 0-00 CARBON	100K 5% 1/6K 100K 5% 1/6K 5.6K 5% 1/6K 100K 5% 1/6K 22K 1% 1/6K	4 M M	TR/ T201 1-404-541-11 T202 1-404-467-00 T203 1-404-467-00	ANSFORMER  COIL COIL, VIF COIL, VIF	
R456 1-215-432 R457 1-215-422 R459 1-247-865 R460 1-247-855 R461 1-247-847	2-00 METAL -00 METAL 2-00 CARBON 3-00 CARBON	3K 1% 1/6l 1K 1% 1/6l 39K 5% 1/6l 10K 5% 1/6l 4.7K 5% 1/6l	M M			
R462 1-247-833 R463 1-247-833 R464 1-247-103 R465 1-247-103 R466 1-247-103	Y-00 CARBON Y-00 CARBON	1K 5% 1/6l 1K 5% 1/6l 100 5% 1/4l 100 5% 1/4l 100 5% 1/4l	N W	CR' X101 1-567-192-11	TUNER, ET (BT=896) 302 122 2352 <u>YSTAL</u> OSCILLATOR, CERAMIC	
R467 1-247-103 R468 1-247-103 R469 1-247-103 R470 1-247-898 R471 1-247-858	3-00 CARBON 9-00 CARBON	68 5% 1/44 68 5% 1/44 68 5% 1/44 680K 5% 1/60 10K 5% 1/60	η η η	X102 1-567-254-11 X301 1-527-722-00	OSCILLATOR, CERAMIC OSCILLATOR, CRYSTAL	
R472 1-247-891 R475 1-247-13	-00 CARBON	330K 5% 1/6V 1K 5% 1/4V 1K 5% 1/4V	d			



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Descripti	<u>on</u>		Remark
*1-613-419-21	M BOARD					RES	ISTOR			
<u>CA</u>	PACITOR				R1302	1-247-139-00 1-247-139-00 1-247-139-00	CARBON	2.2K 2.2K 2.2K	5% 1	/4W /4W /4W
C1301 1-102-978-00 C1302 1-102-978-00 C1303 1-101-004-00	CERAMIC	220PF 220PF 0.01MF	5% 5%	50V 50V 50V	R1304	1-247-139-00 1-247-139-00	CARBON	2. 2K	5% 1	/4W /4W
C1304 1-123-318-00 C1305 1-106-196-00		33MF 0.01MF	20% 10%	16V 100V	R1307	1-247-139-00 1-247-139-00 1-247-139-00	CARBON CARBON CARBON	2. 2K	5% 1	/4W /4W /4W
C1306 1-123-333-00 C1307 1-102-822-00 C1308 1-101-888-00	CERAMIC	100MF 390PF 68PF	20% 5% 5%	16V 50V 50V	R1309	1-247-139-00 1-247-139-00	CARBON CARBON	2.2K	5% 1	/4W /4W
C1309 1-102-074-00 C1310 1-102-074-00	CERAMIC	0.001MF 0.001MF	10% 10%	50V 50V	R1312	1-247-139-00 1-247-171-00 1-247-179-00	CARBON CARBON CARBON	47K	5% 1	/4W /4W /4W
C1311 1-102-074-00 C1312 1-102-074-00 C1313 1-102-074-00	CERAMIC	0.001MF 0.001MF 0.001MF	10% 10% 10%	50V 50V 50V	R1314	1-247-139-00 1-246-529-00			5% 1	/4W /4W
C1314 1-102-074-00		0.001MF	10%	50V	R1317	1-247-147-00 1-247-133-00 1-247-123-00	CARBON		5% 1	/4W /4W /4W
D1305 8-719-911-19			i.		R1319	1-247-107-00 1-247-155-00	CARBON	100 10K	5% 1	/4W /4W
D1307 8-719-911-19 D1308 8-719-911-19	DIODE ISS119 DIODE ISS119 DIODE ISS119				R1322 R1323	1-247-123-00 1-247-139-00 1-247-139-00 1-247-139-00	CARBON CARBON CARBON CARBON		5% 1 5% 1	/4W /4W /4W /4W
D1314 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					1-247-155-00	CARBON	10K 22K	5% 1	/4W /4W
D1317 8-719-911-19	DIODE ISS119 DIODE ISS119				R1327 R1328	1-247-119-00 1-247-091-00 1-247-159-00	CARBON CARBON	330 22 15K	5% 1 5% 1	/4W /4W /4W
D1321 8-719-911-19 D1322 8-719-102-58	DIODE 1SS119 DIODE RD3.6E				R1330	1-247-139-00 1-247-139-00	CARBON	2. 2K	5% 1	/4W /4W
<u>IC</u>			•		R1332		CARBON	2. 2K	5% 1	/4W /4W
IC1301 8-759-909-49	IC CX23040				R1334	1-247-139-00 1-247-139-00	CARBON	2.2K	5% 1	/4W /4W
<u>co</u>	<u>IL</u>				R1336	1-247-131-00	CADDON	1K	5% 1	/4W
L1301 1-407-705-00	MICRO INDUCT	OR 100UH			R1337 R1338	1-247-139-00 1-247-139-00	CARBON CARBON	2. 2K	5% 1	/4W /4W
<u>co</u>	NNECTOR				R1339	1-247-139-00 1-247-139-00	CARBON CARBON		5% 1	/4W /4W
M2 *1-564-354-21 M3 *1-564-442-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	TOR (2.5MM) TOR (2.5MM)	3P 6P		R1341	1-247-139-00 1-247-139-00	CARBON		5% 1	/4W /4W
	PLUG, CONNEC	TOR (2.5MM)	6P			SWI	ТСН			
TR	ANS ISTOR			٠		1-553-976-00 1-553-976-00				
Q1301 8-729-245-83 Q1302 8-729-245-83 Q1303 8-729-245-83		C2458			S1303 S1304	1-553-976-00 1-553-976-00 1-570-061-11	SWITCH, PI	USH USH		
			•			1-570-061-11 1-570-061-11				





Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark	<u>.</u>
\$1308	1-570-061-11	SWITCH, PUSH	(8 KEY)			C764	1-123-321-00	ELECT	220MF		20%	16V	
S1310	1-553-976-00 1-570-061-11	SWITCH, PUSH	(8 KEY)				DIO	<u>DE</u>					
\$1311	1-553-976-00 1-570-061-11	SWITCH, PUSH SWITCH, PUSH	(8 KEY)			D701 D702	8-719-911-19 8-719-911-19						
\$1313	1-570-061-11 1-570-062-11	SWITCH, PUSH	(8 KEY)			D702 D703 D704	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119					
S1316 S1317	1-570-062-11 1-570-062-11 1-570-061-11	SWITCH, PUSH	(2 KEY)			D705	8-719-911-19						
\$1319	1-554-824-11	SWITCH, PUSH	(1 KEY)			D706	8-719-911-19	DIODE 1SS119					
\$1322	1-554-824-11	SWITCH, PUSH	(1 KEY)				<u>C01</u>	<u>L</u>					
	CRY	STAL				L701 L702		MICRO INDUCT					
X1301	1-527-476-00	OSCILLATOR,	CERAMIC			L703	1-407-701-00	MICRO INDUCT	OR 47UH				
*****	******	****	*****	*****	******			COIL, WITH C					
	*A-1330-557-A	C BOARD, COM	PLETE ****			L751	1-407-697-00	MICRO INDUCT	OR 22UH				
	1-526-644-71		•				TRA	NSISTOR					
		NECTOR				Q701 Q702	8-729-245-83 8-729-326-11	TRANSISTOR 2 TRANSISTOR 2					
						0703 0704	8-729-245-83 8-729-326-11	TRANSISTOR 2 TRANSISTOR 2	SC2458				
C1 C2 C4	*1-506-371-00 *1-564-353-00 *1-508-765-00	PLUG, CONNEC	TOR (2.5MM)	<b>2</b> P		Q705	8-729-245-83	TRANSISTOR 2	SC2458				
	CAP	ACITOR				Q706 Q751	8-729-326-11 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2	SC2458				
C 701	1-102-155-00		330PF	20%	2K V	Q752 Q753 Q754	8-729-245-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2	SC2458				
C702 C703	1-129-779-00 1-123-383-00	ELECT	0.022MF 4.7MF	20% 20%	1K V 100V	, , , ,	8-729-103-43	TRANSISTOR 2					
C704 C705	1-121-759-00 1-161-830-00	CERAM IC	4. 7MF 0. 0047MF		250V 500V	Q755 Q756 Q757	8-729-177-43 8-729-177-43 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD774				
C706 C708	1-129-714-00 1-102-115-00	FILM CERAMIC	0.01MF 560PF	10% 10%	630V 50V		RES	ISTOR					
C709 C710	1-102-115-00 1-102-116-00	CERAM IC	560PF 680PF	10% 10%	50V 50V	R701	1-202-846-00	SOLID	470K		1/2W		
C711	1-102-125-00	CERAM IC	0.0047MF	10%	50V	R702 R703		SOLID SOLID	1.2M 330K	10%	1/2W 1/2W		
C712 C713	1-123-356-00 1-102-116-00	ELECT CERAMIC	10MF 680PF	20% 10%	25V 50V	R704 R705	1-202-836-00 1-202-846-00		5 <i>6</i> K 470K		1/2W 1/2W		
C714 C715	1-102-116-00 1-102-116-00	CERAMIC	680PF 680PF	10% 10%	50V 50V	R707	1-202-842-51	SOLID	220K		1/2W		
C751	1-102-110-00		82PF	5%	50V	R708 R709	1-202-824-00 1-202-824-00	SOLID SOLID	3.3K 3.3K		1/2W 1/2W		
C752	1-106-178-00 1-106-212-00	MYLAR MYLAR	0.0018MF 0.047MF	10% 10%	100V 100V	R710 R711	1-212-356-00 1-202-549-00		0.47 100	5% 10%	1W 1/2W	F	
C753 C754	1-123-356-00	ELECT CERAMIC	10MF 270PF	20% 5%	25V 50V	R712	1-202-543-00	SOLID	56	10%	1/2W		
C755 C756	1-102-980-00 1-106-196-00	MYLAR	0.01MF	10%	100V	R713 R714	1-202-824-00	SOLID CARBON	3.3K 100	5%	1/2W 1/4W		
C758	1-106-196-00		0.01MF 0.01MF	10% 10%	100V 100V	R715 R716	1-247-819-00 1-247-819-00 1-247-817-00		330 270	5% 5%	1/6W 1/6W		
C760 C761	1-106-196-00 1-106-220-00	MYLAR	0. 1MF	10% 10% 10%	100V 100V 100V	R710	1-247-839-00		2, 2K	5%	1/6W		
C762 C763	1-106-196-00 1-123-356-00	MYLAR ELECT	0.01MF 10MF	20%	50V	R717 R718 R719	1-247-839-00 1-247-783-00 1-247-841-00	CARBON	10 2.7K	5%	1/6W 1/6W		
						1 4173	1-54/-041-00	O, IND OIL		-10	-, -,		





Ref.No.	Part No.	Description				<u>Remark</u>	Ref.No.	Part No.	<u>Description</u>			Remark
R720 R722 R723 R724	1-247-823-00 1-206-747-00 1-247-819-00 1-247-817-00	METAL OXIDE CARBON	470 8.2K 330 270	5% 5% 5% 5%	1/6W 3W 1/6W 1/6W	F	•	*4-363-404-00 4-363-414-00 4-374-104-01	SPACER, MICA HOLDER, TR			
R725	1-247-839-00	CARBON	2.2K	5%	1/6W		:	CAP	ACITOR_			
R726 R727 R728 R730 R731	1-247-783-00 1-247-835-00 1-247-817-00 1-206-747-00 1-247-819-00	CARBON CARBON METAL OXIDE	10 1.5K 270 8.2K 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 3W 1/6W	F	C602 C603 C604 C605 C606	1-123-333-00 1-102-125-00 1-102-125-00 1-123-333-00 1-123-360-00	CERAM IC	100MF 0.0047MF 0.0047MF 100MF 100MF	20% 10% 10% 20% 20%	16V 50V 50V 25V 50V
R732 R733 R734 R735 R737	1-247-813-00 1-247-839-00 1-247-841-00 1-247-777-00 1-206-747-00	CARBON CARBON CARBON	180 2. 2K 2. 7K 5. 6 8. 2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 3W	F	C607 C608 C610 C611 C612	1-123-356-00 1-123-330-00 1-123-335-00 1-123-360-00 1-123-332-00	ELECT ELECT	10MF 22MF 330MF 100MF 47MF	20% 20% 20% 20% 20%	16V 16V 25V 50V 16V
R751 R752 R753 R754 R755	1-247-815-00 1-247-815-00 1-247-833-00 1-247-829-00 1-213-147-00	C ARB ON C ARB ON	220 220 1.2K 820 2.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1W	F		1-123-333-00 1-101-002-00 1-136-311-51 11-130-678-51 1-161-953-00	CERAMIC FILM	100MF 0.0022MF 0.47MF 0.047MF		
R756 R757 R758 R759 R760	1-247-825-00 1-247-849-00 1-247-867-00 1-247-783-00 1-247-819-00	CARBON CARBON CARBON	560 5.6K 33K 10 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		C623 C624 C625 C626 C627	1-161-953-00 1-161-953-00 1-161-953-00 1-161-953-00 1-125-295-00	CERAMIC CERAMIC	0.0047MF 0.0047MF 0.0047MF 0.0047MF 560MF	20% 20% 20% 20% 20%	400V 400V 400V 400V 200V
R761 R762 R764 R765 R766	1-247-815-00 1-247-815-00 1-247-831-00 1-247-775-00 1-247-867-00	CARBON CARBON CARBON	220 220 1K 4.7 33K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		C630	1-125-295-00 1-161-953-00 1-161-953-00 1-102-117-00 1-162-117-00	CERAM IC CERAM IC	560MF 0.0047MF 0.0047MF 820PF 100PF	20% 20% 20% 10% 10%	200V 400V 400V 50V 500V
R767 R768 R769 R771 R772	1-247-855-00 1-247-867-00 1-247-831-00 1-247-871-00 1-247-791-00	CARBON CARBON	10K 33K 1K 47K 22	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		C1504 C1505 C1507	1-106-172-00 1-123-380-00 1-106-212-00 1-108-595-00 1-106-192-00	MYLAR ELECT MYLAR MYLAR MYLAR	0.001MF 1MF 0.047MF 0.047MF 0.0068MF	10% 20% 10% 5% 10%	100V 50V 100V 50V 100V
R773 R776	1-247-801-00 1-247-775-00		56 4.7	5% 5%	1/6W 1/6W		C1510	1-106-220-00 1-106-204-00 1-123-356-00	MYLAR MYLAR ELECT	0.1MF 0.022MF 10MF	10% 10% 20%	100V 100V 16V
	VAR	MIABLE RESISTOR	_					1-123-381-00 1-130-868-00	ELECT FILM	2.2MF 0.0056MF	20% 5%	50V 50V
RV702 RV703 RV704	1-226-157-00 1-230-105-00 1-230-617-11 1-230-105-00 1-230-617-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 3. BON 1K BON 3.	3K 3K			C1516 C1517	1-102-820-00	ELECT	10MF 10MF 330PF 220MF 0• 22MF	20% 20% 5% 20% 20%	16V 16V 50V 16V 50V
RV706 RV707	1-230-105-00 1-230-105-00	RES, ADJ, CAR RES, ADJ, CAR	BON 3. BON 3.	3K 3K				1-136-173-00		0.47MF	5%	50V
*****	**************************************	D BOARD, COMP	LETE	****	*****	*****	C1521 C1522	1-106-172-00	ELECT	0.47MF 1MF 0.001MF 0.47MF	20% 20% 10% 20%	50V 50V 100V 50V
	*1-508-765-00 *4-329-153-00	3P PLUG (M) HEAT SINK, V						1-106-204-00 1-123-369-00 1-123-323-00	ELECT	0.022MF 4.7MF 470MF	10% 20% 20%	100V 50V 16V



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
C1527 1-106-190-00 C1528 1-106-204-00 C1529 1-102-030-00 C1530 1-123-357-00 C1531 1-102-038-00	MYLAR MYLAR CERAM IC ELECT CERAM IC	0.0056MF 0.022MF 330PF 22MF 0.001MF	10% 10% 10% 20%	100V 100V 500V 500V 500V	C1651 C1652 C1653	1-106-212-00 1-123-364-00 1-102-038-00 1-108-429-00 1-102-223-00	MYLAR ELECT CERAMIC MYLAR CERAMIC	0.047MF 1000MF 0.001MF 0.047MF 0.0047MF	10% 20% 10% 10%	100V 50V 500V 200V 2K V
C1534 1-123-356-00 C1535 1-106-190-00 C1536 1-123-232-00 C1538 1-102-114-00 C1540 1-123-332-00	ELECT MYLAR ELECT CERAMIC ELECT	10MF 0.0056MF 4.7MF 470PF 47MF	20% 10% 20% 10% 20%	16V 100V 50V 50V 25V	C1655 C1656 C1657 C1658 C1659	1-102-212-00 1-123-336-00 1-124-347-00 1-123-384-00 1-106-377-00	CERAMIC ELECT ELECT ELECT MYLAR	820PF 470MF 100MF 10MF 0.027MF	10% 20% 20% 20% 10%	500V 25V 160V 100V 200V
C1541 1-102-157-00 C1542 1-123-332-00 C1543 1-102-030-00 C1544 1-108-437-00 C1545 1-108-431-00	CERAMIC ELECT CERAMIC MYLAR MYLAR	560PF 47MF 330PF 0•22MF 0•068MF	10% 20% 10% 10% 10%	500V 16V 500V 200V 200V	C1661 C1662 C1663 <u>A</u>	1-123-379-00 1-102-244-00 1-106-367-00 1-162-134-51 1-136-317-11	CERAMIC MYLAR CERAMIC			
C1546 1-123-931-00 C1547 1-123-356-00 C1548 1-102-212-00 C1549 1-108-429-00 C1550 1-108-429-00	ELECT ELECT GERAM IC MYLAR MYLAR	3. 3MF 10MF 82 0PF 0. 047MF 0. 047MF	20% 20% 10% 10% 10%	160V 50V 500V 200V 200V	C1666 C1667 <u>A</u> C1668 <u>A</u>	1-162-115-51 1-106-351-00 1-136-315-51 1-129-704-51 1-123-332-00	MYLAR FILM FILM	330PF 0.0022MF 0.047MF 0.0015MF 47MF	10% 5%	200V 630V
C1551 1-124-609-11 C1552 1-123-380-00 C1553 1-123-357-00 C1555 1-106-172-00 C1556 1-106-188-00	ELECT ELECT ELECT MYLAR MYLAR	470MF 1MF 22MF 0.001MF 0.0047MF	10% 20% 20% 10% 10%	50V 50V 50V 100V	C1671 C1672 C1673A	1-136-053-11 1-106-172-00 1-108-431-00 1-136-179-11 1-136-184-00	MYLAR MYLAR FILM	1. 2ME 0. 001MF 0. 068MF 1. 5MF 0. 68MF	10% 10%	200V Y 2 100V 200V 200V 250V
C1557 1-136-173-00 C1558 1-102-212-00 C1559 1-101-004-00 C1567 1-102-112-00 C1572 1-106-196-00	FILM CERAMIC CERAMIC CERAMIC MYLAR	0.47MF 820PF 0.01MF 330PF 0.01MF	5% 10% 10% 10%	50V 500V 50V 50V 100V	C1676	1-162-115-51 1-108-429-00 1-102-233-00 <u>CON</u>	MYLAR	330PF 0.047MF 33PF	10% 10% 10%	2KV 200V 500V
C1573 1-123-380-00 C1574 1-106-204-00 C1575 1-106-196-00 C1576 1-106-212-00 C1577 1-106-212-00	ELECT MYLAR MYLAR MYLAR MYLAR	1MF 0. 022MF 0. 01MF 0. 047MF 0. 047MF	20% 10% 10% 10% 10%	50V 100V 100V 100V 100V	D2 D3 D4	*1-564-353-00 *1-564-444-11 *1-508-766-00 *1-564-441-11 *1-564-440-11	PLUG, CONNEC PLUG, CONNEC 4P PLUG (M) PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM)	5P	
C1578 1-123-379-00 C1579 1-123-330-00 C1591 1-123-356-00 C1592 1-123-356-00 C1593 1-123-379-00	ELECT ELECT ELECT ELECT ELECT	0.47MF 22MF 10MF 10MF 0.47MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 50V	D8 D10 D11	*1-508-766-00 *1-508-765-00 *1-508-765-00 *1-508-767-00 *1-560-125-00	4P PLUG (M) 3P PLUG (M) 3P PLUG (M) 5P PLUG PLUG, CONNEC	TOR (2.5MM)	5P	,
C1594 1-106-196-00 C1595 1-106-184-00 C1596 1-102-117-00 C1600 1-106-180-00 C1601 1-106-208-00	MYLAR MYLAR CERAMIC MYLAR MYLAR	0.01MF 0.0033MF 820PF 0.0022MF 0.033MF	10% 10% 10% 10% 10%	100V 100V 50V 100V	D14 D15 D16	*1-508-767-00 *1-508-766-00 *1-560-290-00 *1-508-765-00 *1-508-765-00	5P PLUG 4P PLUG (M) PLUG, CONNEC 3P PLUG (M) 3P PLUG (M)	TOR (2.5MM P	ІТСН)	
C1602 1-106-184-00 C1604 1-123-359-00 C1605 1-123-357-00 C1606 1-123-332-00 C1607 1-123-360-00	MYLAR ELECT ELECT ELECT ELECT	0.0033MF 47MF 22MF 47MF 100MF	10% 20% 20% 20% 20%	100V 50V 50V 16V 50V		*1-508-765-00 *1-508-766-00 <u>DIO</u>				
C1608 1-129-701-00 C1609 1-106-208-00 C1610 1-123-361-00	FILM MYLAR	0.01MF 0.033MF 220MF	5% 10% 20%	100V 100V 50V	D605 D606 D607 D609 <u>A</u>		DIODE 188119 DIODE 188119			



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Ref.No.	Part No.	Description	Remark		Part No.	Description		Remar	<u>K</u>
D610 D621	8-719-102-72 8-719-911-55	DIODE RD5.6E=N3 DIODE UO5G		11520	1-407-365-00 1-407-365-00	COIL, CHOKE			
D622 D623	8-719-911-55 8-719-911-55		•	L1522 <u>A</u>	.1-459-485-11	COIL, CHOKE	10.2 % Of -0.		推翻
	8-719-911-19				TRA	NSISTOR			
		DIODE RD24E-BZ7		0602	8-729-965-22 8-729-201-78				
D1504		DIODE RD5.6E=B2 DIODE UO5G			8-729-204-83	TRANSISTOR 2	SA1048GR		
	8-719-100-35 8-719-101-58	DIODE RD5.6E-B2 DIODE RD5.6E-L2			8-729-245-83 8-729-245-83				
D1509	8-719-911-19				8-729-245-83				
D1510 D1511	8-719-911-19 8-719-911-19			01507	8-729-204-83 8-729-169-02	TRANSISTOR 2 TRANSISTOR 2	SC 2690A		
	8-719-911-19	DIODE 1SS119		01508 01509	8-729-122-02 8-729-195-82	TRANSISTOR 2 TRANSISTOR 2	SA1220A SC2958		
D1514	8-719-200-02			Q1510	8-729-204-83	TRANSISTOR 2	SA1048GR	•	
D1515 D1516	8-719-911-55 8-719-200-02				8-729-245-83 8-729-245-83	TRANSISTOR 2			
D1517	8-719-911-19 8-719-300-38	DIODE 1SS119			8-729-245-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2			
D1652					8-729-245-83				
D1653 D1654	8-719-300-76 8-719-901-19				8-729-245-83 8-729-122-02			•	
D1655	8-719-305-15 8-719-305-15	DIODE GH3F DIODE GH3F			8-729-169-02 8-729-378-84				
		DIODE ERD29-08J		, , ,	9-982-269-01		1.0.1		
D1658	8-719-911-55 8-719-911-55	DIODE UO5G		01525	4-342-013-00 8-729-245-83	SPACER, MICA			
	8-719-300-65			Q1527	8-729-175-22 8-729-300-90	TRANSISTOR 2	2SC 2752		
	<u>FUS</u>					ISTOR			
F 601 Æ	1-532-627-11 1-517-072-00	FUSE, GLASS TUBE 125V LAMP HOLDER, F601	7 <b>A</b> 2010 (2010)	R602	1-247-147-00	<del>,</del>	4.7K 5%	1/4W	
	IC IC	<b></b>		R603	1-247-139-00 1-213-135-61	CARBON	2.2K 5%	1/4W 1W F	
rc 1501	8-759-100-60	TC UPC 137.7C		R606 R607	1-247-831-00 1-247-855-00	CARBON	1K 5% 10K 5%	1/8W F 1/6W	
IC 1501	6-066-717-10	IĆ TDA1082		R608	1-247-131-00		1K 5%	1/4W	
	<u>C01</u>	<u>L</u> .		R620	1-202-723-00 1-202-723-51	SOLID	2.2M 10%	1/2W 1/2W	en i
L15012	1-459-059-12	COIL, DUST CORE		R622	1-205-768-11	CEMENTED	1.2 5%	15W	#INTERNATION OF
L1505	1-408-225-00	MICRO INDUCTOR 3.3UH MICRO INDUCTOR 3.3UH		R623	1-246-525-00		150K 5%	1/4W	
1 1506	1-408-225-00	MICRO INDUCTOR 3.3UH COIL, DUST CORE		R624 R1500	1-246-525-00 1-247-831-00		150K 5% 1K, 5%	1/4W 1/6W	
		MICRO INDUCTOR 15MMH	w. C. Schiebers in reservoirs of Schools of the considerability and approximately	K1201	1-247-155-00 1-206-700-00		10K 5% 33K 5%	1/4W 2W F	
L1509	1-459-119-00 1-459-215-00	COIL, DUST CORE(ARC) CORE COIL			1-247-815-00		220 5%	1/6W	
1 151 3	1-459-104-00	COIL, DUST CORE COIL, HORIZONTAL LINEA	RTTV:-17		1-247-819-00 1-247-845-00		330 5% 3.9K 5%	1/6W 1/6W	
in in this transmission of the				R1506	1-247-107-00	CARBON	100 5% 430K 5%	1/4W 1/4W	
L1516	1-408-235-00	MICRO INDUCTOR 2.2MMH			1-247-163-00		22K 5%	1/4W	
L1517 L1518	1-407-365-00 1-407-365-00	COIL, CHOKE		R1509	1-247-863-00	CARBON	22K 5%	1/6W	



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Ref.No. Part No.	<u>Description</u>				Remark		Part No.	Description	000	F~	1./01/	
R1510 1-247-877-00 R1511 1-247-868-00	CARBON	82K 36K	5% 5%	1/6W 1/6W		R1567	1-247-034-00	CARBON METAL OXIDE	220 680	5% 5%	1/8W 1W	F F
R1512 1-247-819-00 R1513 1-247-177-00	CARBON CARBON	330 82K	5% 5%	1/6W 1/4W		R1568 R1569	1-247-797-00 1-213-148-00	CARBON METAL OXIDE	39 2.7K	5% 5%	1/8W 1W	F
R1514 1-246-485-25	CARBON	3.3K	5%	1/4W			1-247-835-00	CARBON	1.5K	5%	1/6W	
R1515 1-247-857-00 R1516 1-247-867-00	CARBON CARBON	12K 33K	5% 5%	1/6W 1/6W		R1571 R1572	1-247-167-00 1-247-873-00	CARBON CARBON	33K 56K	5% 5%	1/4W 1/6W	
R1517 1-247-827-00 R1518 1-247-827-00	CARBON CARBON	680 680	5% 5%	1/6W 1/6W		R1573 R1574	1-247-855-00 1-247-843-00	CARBON CARBON	10K 3.3K	5% 5%	1/6W 1/6W	•
R1519 1-247-851-00	CARBON	6. 8K	5%	1/6W		1	1-247-835-00	CARBON	1.5K	5%	1/6W	
R1520 1-247-135-00 R1521 1-247-177-00		1.5K 82K	5% 5% ·	1/4W 1/4W			1-247-815-00 1-247-131-00	CARBON CARBON	220 1K	5% 5%	1/6W 1/4W	eliter on a significant action of
R1522 1-215-463-00 R1523 1-247-857-00	METAL	5.6K 1.2K	1% 5%	1/6W 1/6W		NR1578 <u>A</u>   R1579	1-215-411-00	METAL (1992) METAL	390	1%	1/6W	r II.
R1524 1-247-158-00		13K	5%	1/4W		R1580	1-247-823-00	CARBON	470	5%	1/6W	
R1525 1-247-845-00 R1526 1-247-867-00		3.9K 33K	5% 5%	1/6W 1/6W		R1581 R1582	1-247-837-00 1-246-485-25	CARBON CARBON	1.8K 3.3K	5% 5%	1/6W 1/4W	
R1527 1-247-155-00 R1528 1-247-839-00	CARBON	10K 2.2K	5% 5%	1/4W 1/6W		R1583 R1584	1-212-364-00 1-213-147-00	METAL OXIDE METAL OXIDE	2.2 2.2K	5% 5%	1W 1W	F F
R1529 1-214-753-00		10K	1%	1/4W		R1585	1-247-171-00	CARBON	47K	5%	1/4W	
R1530 1-214-750-00	METAL METAL	7 <b>.</b> 5K	1%	1/4W 1/4W .	i. Cinil	R1586 R1587	1-206-463-00	METAL OXIDE METAL OXIDE	10 10	5% 5%	2W 2W	F F
R1531A- R1532 1-247-855-00	CARBON	10K 15K	5% 5%	1/6W 2W	F	R1588 R1589	1-246-503-25 1-247-855-00	CARBON CARBON	18K 10K	5% 5%	1/4W 1/6W	
R1533 1-206-692-00 ■ R1534A.			J.			R1590	1-247-839-00	CARBON	2. 2K	5%	1/6W	
■R1535A.	METAL STE	180K	1%	1/4W 1/4W	e Assi	R1591 R1592	1-247-849-00 1-247-843-00	CARBON CARBON	5. 6K 3. 3K	5% 5%	1/6W 1/6W	
R1537 1-214-783-00 R1538 1-214-753-00	METAL	10K	1% 5%	1/4W 1/4W		R1593 R1594	1-247-831-00 1-247-857-00	CARBON CARBON	1K 12K	5% 5%	1/6W 1/6W	
R1539 1-247-177-00 R1540 1-246-545-00		82K 1M	5% 5%	1/4W 1/4W		R1595	1-247-875-00	CARBON	68K	5%	1/6W	
R1541 1-202-723-00		2.2M 7.5K	10% 1%	1/2W 1/4W		R1596 R1597	1-247-879-00 1-247-847-00	CARBON CARBON	100K 4.7K	5% 5%	1/6W 1/6W	
R1543 1-214-750-00 R1544 1-214-779-00	METAL	120K	1%	1/4W		R1598	1-247-875-00	CARBON CARBON	68K 2.2K	5% 5%	1/6W 1/6W	
R1545 1-214-781-00 R1546 1-247-831-00		150K 1K	1% 5%	1/4W 1/6W		R1599 R1600	1-247-855-00	CARBON	10K	5%	1/6W	
R1547 1-214-766-00		36K	1%	1/4W		R1601	1-247-867-00 1-247-139-00	CARBON CARBON	33K 2•2K	5% 5%	1/6W 1/4W	
R1548 1-247-119-00 R1549 1-247-833-00	CARBON	330 1.2K	5% 5%	1/4W 1/6W		R1602	1-247-167-00	CARB ON	33K 10K	5% 5%	1/4W 1/6W	
R1550 1-213-161-00 R1551 1-247-131-00		33K 1K	5% 5%	1W 1/4W	F	R1604 R1605	1-247-855-00 1-247-871-00	CARBON CARBON	47K	5% 5%	1/6W	
R1552 1-247-109-00		120	5%	1/4W	_	R1606	1-247-871-00	CARBON CARBON	47K 1.2K	5% 5%	1/6W 1/6W	
R1553 1-213-155-00 R1554 1-247-807-00	CARBON	10K 100	5% 5%	1W 1/6W	F	R1607 R1608	1-247-833-00 1-247-875-00	CARBON	68K	5%	1/6W	
R1555 1-247-879-00 ■R1556 A	CARBON CARBON	100K	5%	1/6W 1/4W	1 2	R1609 R1610	1-247-875-00 1-247-855-00	CARBON CARBON	68K 10K	5% 5%	1/6W 1/6W	
R1558 1-247-903-00	CARBON	1M	5%	1/6W		R1611	1-247-831-00	CARBON	1K	5% 5%	1/6W 1/4W	
R1559 1-247-903-00 R1560 1-247-807-00	CARBON	1M 100	5% 5%	1/6W 1/8W	<u>F</u>	R1612	1-247-107-00 1-247-875-00	CARBON CARBON	100 68K	5%	1/6W	
R1561 1-247-823-00 R1562 1-213-145-00		470 1.5K	5% 5%	1/8W 1W	F F	R1614 R1616	1-247-855-00 1-246-485-25	CARBON CARBON	10K 3.3K	5% 5%	1/6W 1/4W	
R1563 1-212-361-00		1.2	5%	1W	F	R1617	1-247-863-00	CARBON	22K	5%	1/6W	
R1564 1-212-361-00 R1565 1-247-791-00		1.2 22	5% 5%	1W 1/8W	F F	R1618 R1619	1-247-847-00 1-247-863-00	CARBON CARBON	4.7K 22K	5% 5%	1/6W 1/6W	

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.





Ref.No. Part No.	<u>Description</u>				Ren	nark	Ref.No.	Part No.	Description			Remark
R1620 1-247-843-00 R1621 1-247-799-00 R1622 1-247-799-00 R1623 1-247-783-00 R1624 1-247-855-00	CARBON CARBON CARBON	3.3K 47 47 10 10K	5% 5% 5% 5%	1/6W 1/8W 1/8W 1/8W 1/6W	F F F		RY601,	<u>REL</u> <b>∱</b> 1-515-491-11 <u>SPA</u>	<del></del> .	)	SS-73.1 s	1
R1625 1-247-871-00 R1626 1-247-795-00 R1627 1-247-791-00 R1631 1-247-153-00 R1632 1-247-877-00	CARBON CARBON CARBON	47K 33 22 8. 2K 82K	5% 5% 5% 5% 5%	1/6W 1/8W 1/8W 1/4W 1/6W	F		Τ601\Δ	 1-448-019-11	<u>NSFORMER</u> TRANSFORMER,			1 0527
R1633 1-247-861-00 R1634 1-247-861-00 R1635 1-214-775-00 R1636 1-247-861-00 R1637 1-247-857-00	CARBON METAL ⊅ CARBON	18K 18K 82K 18K 12K	5% 5% 1% 5% 5%	1/6W 1/6W 1/4W 1/6W 1/6W			T1502 T1503	X 1-421-730-11 1-437-131-00 1-413-059-00 THE	TRANSFORMER, TRANSFORMER, RMISTOR	FERRITE (DF	,	
R1638 1-247-815-00 R1639 1-213-133-00 R1640 1-247-817-00 R1641 1-247-843-00 R1642 1-247-845-00	METAL OXIDE CARBON CARBON	220 150 270 3. 3K 3. 9K	5% 5% 5% 5% 5%	1/6W 1W 1/6W 1/6W 1/6W	F			**************************************		*************		
R1643 1-247-825-00 R1664 1-247-807-00 R1649 1-247-111-00 R1651 1-210-859-00 R1652 1-210-859-00	C ARBON C ARBON C ARBON	560 100 150 1.2 1.2	5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/8W 1/8W	F F		0001	*1-560-984-00 CAP	ACITOR	LUG) 34P		50V
R1653 1-206-511-00 R1654 1-213-146-00 R1655 1-247-853-00 R1656 1-206-733-00 R1657 1-207-453-00	METAL OXIDE CARBON METAL OXIDE	10 1.8K 8.2K 2.2K 0.15	5% 5% 5% 5% 10%	3W 1W 1/6W 3W 1/2W	F F		C801 C802 C803 C804 C805	1-123-380-00 1-123-380-00 1-123-380-00 1-123-380-00	ELECT ELECT ELECT ELECT	IMF IMF IMF IMF	20% 20% 20% 20% 20%	50V 50V 50V 50V
R1658 1-247-835-00 R1659 1-247-099-00 R1660 1-206-658-00 R1661 1-213-141-00 R1662 1-213-128-00	CARBON METAL OXIDE METAL OXIDE	1.5K 47 560 680 56	5% 5% 5% 5% 5%	1/6W 1/4W 2W 1W 1W	F F		C806 C807 C808 C809 C810	1-123-611-00 1-123-611-00 1-123-324-00 1-123-324-00 1-123-324-00	ELECT ELECT ELECT	1MF 1MF 1000MF 1000MF 1000MF	20% 20% 20% 20% 20%	50V 50V 16V 16V
R1663 1-212-368-00 R1664 1-247-817-00 R1665 1-206-485-00 R1666 1-206-485-00	METAL OXIDE	4.7 270 82 82	5% 5% 5% 5%	1W 1/8W 2W 2W	F F F	j r	C811 C812 C813 C814 C815		ELECT	1MF 1MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V
<u>VA</u>	RIABLE RESISTOR	_					C816 C817	1-123-380-00 1-123-307-00	ELECT ELECT	1MF 100MF	20% 20%	50V 6. 3V
RV1501 1-228-723-00 RV1503 1-228-717-00 RV1504 1-228-727-00 RV1505 1-228-727-00	RES, ADJ, CER RES, ADJ, CER	AMIC C	ARBON ARBON	220 47K			C818 C819 C820	1-123-318-00 1-123-308-00 1-102-125-00	ELECT ELECT	33MF 220MF 0.0047MF	20% 20% 10%	16V 10V 50V
RV1506 1-228-724-00 RV1507 1-228-727-00 RV1509 1-228-724-00 RV1509 1-228-727-00 RV1510 1-228-728-728-00	RES, ADJ, CER RES, ADJ, CER RES, ADJ, CER RES, ADJ, CER	AMIC C. AMIC C. AMIC C. AMIC C.	ARBON ARBON ARBON ARBON	10K 47K 10K 47K			C821 C822 C823 C824 C825	1-102-965-00 1-102-965-00 1-102-965-00 1-123-820-00 1-123-820-00	CERAMIC CERAMIC CERAMIC ELECT ELECT	39PF 39PF 39PF 33MF 33MF	5% 5% 20% 20%	50V 50V 50V 16V
RV1511 1-228-723-00 RV1512 1-228-718-00 RV1513 1-228-720-00	RES, ADJ, CER RES, ADJ, CER	AMIC C	ARBON Arbon	4.7K 330			C826 C827 C829 C830	1-123-820-00 1-102-824-00 1-101-880-00 1-123-333-00	CERAMIC	33MF 470PF 47PF 100MF	20% 5% 5% 20%	16V 50V 50V 16V



Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
C832 C834 C835 C836 C837	1-123-622-00 1-123-318-00 1-123-820-00 1-123-820-00 1-123-318-00	ELECT ELECT ELECT ELECT ELECT	22MF 33MF 33MF 33MF 33MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	Q817 Q818 Q819 Q820 Q821	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC 2458 SC 2458 SC 2458			٤
C839 C842 C843 C845 C846		ELECT ELECT ELECT ELECT ELECT	1MF 220MF 33MF 10MF 22MF	20% 20% 20% 20%	50V 16V 16V 16V 16V	Q822 Q823 Q824 Q825 Q826	8-729-204-83 8-729-204-83 8-729-245-83 8-729-204-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1048G SC2458 SA1048G	R		
C847 C851 C852 C853 C880	1-102-125-00 1-123-332-00 1-123-318-00 1-102-125-00 1-123-307-00		0.0047MF 47MF 33MF 0.0047MF 100MF	10% 20% 20% 10% 20%	50V 16V 16V 50V 6. 3V	Q827 Q828 Q829 Q830 Q831	8-729-245-83 8-729-245-83 8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2458 SA1048G SA1048G	R		
	DIO	<u>DÈ</u>				Q832 Q833	8-729-204-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2		R		
D801 D802	8-719-102-73 8-719-102-73	DIODE RD6.2E-N	-N1			Q834 Q835	8-729-245-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2	SC 2458			
D806 D807	8-719-102-73 8-719-911-19	DIODE RD6.2E DIODE 1SS119 DIODE 1SS119					RES	ISTOR				
D808 D809	8-719-911-19 8-719-911-19	DIODE 188119				R801 R802	1-247-123-00 1-247-873-00		470 56K	5% 5%	1/4W 1/6W	
D814 D815 D816 D817	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	-N1			R803 R804 R805	1-247-873-00 1-247-115-00 1-247-879-00	CARBON	56K 220 100K	5% 5% 5%	1/6W 1/4W 1/6W	-
D818	8-719-102-73	DIODE RD6.2E	-N1			R806 R807	1-247-873-00 1-247-873-00	CARBON	56K 56K	5% 5%	1/6W 1/6W	
	<u>IC</u>				,	R808 R809	1-247-179-00 1-246-543-00	CARBON	100K 820K	5% 5%	1/4W 1/4W	
IC 802 IC 803 IC 804	8-759-240-52 8-759-240-52 8-759-900-09 8-759-140-53 8-759-240-52	IC TC 4052BP IC TC 4052BP IC SN74LS09N IC UPD 4053BC IC TC 4052BP				R810 R811 R812 R813 R814	1-247-831-00 1-247-115-00 1-247-847-00 1-247-869-00 1-247-847-00	CARBON CARBON CARBON	1K 220 4. 7K 39K 4. 7K	5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W	
	8-759-900-05 8-759-145-58					R815	1-247-855-00	CARBON	10K	5%	1/6W	
	<u>C01</u>	<u>L</u>				R816 R818	1-247-855-00	CARBON	10K 1K	5% 5%	1/6W 1/4W	
L801 L802	1-408-235-00 1-408-417-00	MICRO INDUCTO	OR 2.2MMH OR 47UH			R819 R820 R821	1-247-131-00 1-247-901-00 1-247-869-00	CARBON	1K 820K 39K	5% 5% 5%	1/4W 1/6W 1/6W	
	TRA	NSISTOR				R822 R823	1-247-115-00 1-247-107-00		220 100	5% 5%	1/4W 1/4W	
Q802 Q803 Q804 Q805	8-729-204-83 8-729-204-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1048GR SA1048GR			R824 R825 R827	1-247-117-00 1-247-815-00 1-247-893-00	CARBON CARBON	270 220 390K	5% 5% 5%	1/4W 1/6W 1/6W	
Q806	8-729-245-83	TRANSISTOR 25			1	R829	1-246-507-00		390K 27K	5% 5%	1/6W 1/4W	
Q807 Q812 Q813 Q814	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	5C2458 5C2458	,		R830 R831 R832		CARBON CARBON CARBON	27K 27K 27K	5% 5% 5%	1/4W 1/4W 1/4W	
Q814 Q815	8-729-245-83	TRANSISTOR 29					1-246-507-00 1-247-865-00		27K 27K	5% 5%	1/4W 1/6W	
Q816	8-729-245-83	TRANSISTOR 25	SC2458		'					•	•	



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Ref.No.	Part No.	Description				Remark		Part No.	Description				Remark
R835 R837	1-247-893-00 1-246-463-25	CARBON CARBON	390K 390	5% 5%	1/6W 1/4W		R897	1-247-855-00 1-247-855-00	CARBON CARBON	10K 10K	5% 5%	1/6W 1/6W	
R838	1-247-895-00	CARBON	470K	5%	1/6W		R899	1-247-115-00	CARBON	220	5%	1/4W	
R839	1-246-537-00	CARBON	470K	5%	1/4W	٠	R900	1-247-107-00	CARBON	100	5%	1/4W	
R840	1-247-104-00	CARBON	75	5%	1/4W		R901	1-247-131-00	CARB ON	1K	5%	1/4W	
R841	1-247-149-00	C ARB ON	5. 6K	5%	1/4W		R902 R903	1-247-131-00 1-247-105-00	CARBON CARBON	1K 82	5% 5%	1/4W 1/4W	
R842 R843	1-247-149-00 1-247-155-00	CARBON CARBON	5.6K 10K	5% 5%	1/4W 1/4W		R904	1-247-105-00	CARBON	82 82	5% 5%	1/4W 1/4W	
R844	1-247-155-00	CARBON	10K	5%	1/4W		R905	1-247-105-00	CARBON	82	5%	1/4W	
R845	1-247-895-00	CARBON	470K	5%	1/6W		R906	1-247-105-00	CARBON	82	5%	1/4W	
R846	1-247-104-00	CARBON	75	5%	1/4W		R908	1-247-861-00	CARBON	18K	5%	1/6W	
R847	1-246-507-00	CARBON	27K	5%	1/4W		R909 R910	1-247-867-00	CARBON	33K	5%	1/6W	
R848 R849	1-246-507-00 1-247-131-00	CARBON CARBON	27K 1K	5% 5%	1/4W 1/4W		R911	1-247-861-00 1-247-879-00	CARBON CARBON	18K 100K	5% 5%	1/6W 1/6W	
R850	1-247-131-00	CARBON	1K	5%	1/4W		R912	1-247-879-00	CARBON	100K	5%	1/6W	
R851	1-247-155-00	CARBON	10K	5%	1/4W		R913	1-247-847-00	CARBON	4.7K	5%	1/6W	
R852	1-247-863-00	CARBON	22K	5%	1/6W		R914	1-247-847-00	CARBON	4.7K	5%	1/6W	
R853	1-246-463-00 1-247-104-00	CARBON CARBON	390 75	5% 5%	1/4W 1/4W		R915 R916	1-247-823-00 1-247-823-00	CARBON CARBON	470 470	5% 5%	1/6W 1/6W	
R854 R855	1-247-104-00	CARBON	4.7K	5% 5%	1/4W		R917	1-247-827-00	CARBON	680	5% 5%	1/6W	
R856	1-247-131-00	CARBON	1K	5%	1/4W		R918	1-247-835-00	CARBON	1.5K	5%	1/6W	
R857	1-246-503-25	CARBON	18K	5%	1/4W		R919	1-247-855-00	CARBON	10K	5%	1/6W	
R858	1-247-877-00	CARBON	82K	5%	1/6W		R921	1-247-831-00	CARBON	1K	5%	1/6W	
R859	1-247-831-00 1-247-115-00	CARBON CARBON	1K 220	5% 5%	1/6W 1/4W		R922 R923	1-247-131-00 1-247-871-00	CARBON CARBON	1K 47K	5% 5%	1/4W 1/6W	*
R860		•			-	_	1					,	
R861	1-247-147-00		4. 7K	5%	1/4W 1/6W		R924	1-247-871-00 1-247-893-00	CARBON CARBON	47K 390K	5% 5%	1/6W 1/6W	
R862 R863	1-247-831-00 1-247-835-00	C ARBON C ARBON	1K 1.5K	5% 5%	1/6W		R925	1-247-855-00	CARBON	10K	5%	1/6W	
R864	1-247-115-00	CARBON	220	5%	1/4W		R928	1-247-831-00	CARBON	1K	5%	1/6W	
R865	1-247-115-00	CARBON	220	5%	1/4W		R929	1-247-131-00	CARBON	1K	5%	1/4W	
R866	1-247-835-00	CARBON	1.5K	5%	1/6W		R930	1-247-131-00	CARBON	1K	5%	1/4W	
R867	1-247-835-00	CARBON	1.5K	5%	1/6W		R931	1-247-131-00	CARBON	1K	5%	1/4W	
R868	1-247-831-00 1-247-115-00	CARBON CARBON	1K 220	5% 5%	1/6W 1/4W		R932	1-247-879-00 1-247-879-00	CARBON CARBON	100K 100K	5% 5%	1/6W 1/6W	
R869 R870	1-247-115-00		220	5% 5%	1/4W		R938	1-246-485-25	CARBON	3. 3K	5%	1/4W	
R872	1-247-115-00	CARBON	220	5%	1/4W		R939	1-247-837-00	CARBON	1.8K	5%	1/6W	
R873	1-247-115-00	CARBON	220	5%	1/4W		R940	1-247-879-00	CARBON	100K	5%	1/6W	
R874	1-247-823-00		470	5%	1/6W		R941	1-247-131-00	CARBON	1K	5%	1/4W	
R875	1-247-157-00	CARBON	12K	5%	1/4W		R942 R943	1-247-104-00 1-247-104-00	CARBON CARBON	75 75	5% 5%	1/4W 1/4W	
R876	1-247-829-00	CARBON	820	5%	1/6W		1					•	
R879	1-247-823-00		470	5% c«	1/6W		R944 R947	1-247-104-00 1-247-131-00	CARBON	75 <b>1</b> K	5% 5%	1/4W 1/4W	
R881 R882	1-247-887-00 1-247-887-00	CARBON CARBON	220K 220K	5% 5%	1/6W 1/6W		R947	1-247-131-00	CARBON CARBON	1K 1K	5% 5%	1/4W 1/4W	
R883	1-247-855-00	CARBON	10K	5%	1/6W		R950	1-247-131-00	CARBON	1K	5%	1/4W	
R884	1-247-855-00	CARBON	10K	5%	1/6W		R951	1-246-463-25	CARBON	390	5%	1/4W	
R885	1-247-863-00	CARBON	22K	5%	1/6W		R952	1-246-463-25	CARBON	390	5%	1/4W	
R886	1-247-163-00 1-247-863-00	CARBON CARBON	22K 22K	5% 5%	1/4W 1/6W		R955 R956	1-246-535-00 1-246-485-25	CARBON CARBON	390K 3. 3K	5% 5%	1/4W 1/4W	
R887 R888	1-247-863-00	CARBON	22K	5% 5%	1/6W		R957	1-247-815-00	CARBON	220	5%	1/4W	
R889	1-247-831-00	CARBON	1K	5%	1/6W		R958	1-246-485-25	CARBON	3. 3K	5%	1/4W	
R891	1-247-103-00	CARBON	68	5%	1/4W		R959	1-247-815-00	CARBON	220	5%	1/6W	
R895	1-247-155-00	CARBON	10K	5%	1/4W		İ						
R896	1-247-155-00	CARBON	10K	5%	1/4W		1						





Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
<u>VAR</u> RV801 1-228-848-00 RV802 1-228-490-00		RBON 10K			C1125 C1126 C1127	1-123-380-00 1-123-332-00 1-123-380-00 1-123-356-00 1-106-176-00	ELECT ELECT ELECT	1MF 47MF 1MF 10MF 0.0015MF	20% 20% 20% 20% 10%	50V 16V 50V 16V 100V
SWI	TCH				C1129	1-106-176-00	MYLAR	0.0015MF	10%	100V
\$802 1-553-651-00	SWITCH, SLID SWITCH, SLID				C1131 C1132	1-123-380-00 1-131-345-00 1-123-356-00	TANTALUM ELECT	1MF 0.47MF 10MF 33MF	20% 10% 20% 20%	50V 35V 16V 16V
<del></del>	NEC TOR				[	1-123-318-00				
U1	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	8P 4P 4P		C1135 C1136 C1137	1-130-301-00 1-123-323-00 1-123-332-00 1-123-332-00 1-123-308-00	ELECT ELECT ELECT	0.015MF 470MF 47MF 47MF 220MF	5% 20% 20% 20% 20%	100V 16V 16V 16V 10V
U6 *1-564-441-11 U7 *1-564-442-11 U8 *1-564-442-11 U9 *1-564-453-11 U10 *1-564-353-00	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	6P 6P 5P 2P		C1150 C1151 C1152	1-123-381-00 1-123-381-00 1-123-369-00 1-123-369-00 1-102-074-00	ELECT ELECT ELECT	2. 2MF 2. 2MF 4. 7MF 4. 7MF 0. 001MF	20% 20% 20% 20% 10%	50V 50V 25V 25V 50V
U11 *1-564-453-11 U13 *1-564-353-00					C1155 C1156	1-102-074-00 1-102-074-00 1-102-074-00 1-123-323-00	CERAMIC CERAMIC	0.001MF 0.001MF 0.001MF 470MF	10% 10% 10% 20%	50V 50V 50V 16V
*A-1386-014-A	X BOARD, COM				C1161	1-106-212-00 1-106-172-00	MYLAR	0.047MF 0.001MF	10%	100V 100V
4-309-378-00	SPACER				C1163	1-106-172-00 1-106-212-00	MYLAR	0.001MF 0.047MF	10%	100V 100V
CAP	ACITOR					1-123-356-00 1-123-380-00		10MF 1MF	20% 20%	16V 50V
C1101 1-123-318-00 C1102 1-123-356-00 C1103 1-123-318-00 C1104 1-123-356-00 C1105 1-102-074-00	ELECT ELECT ELECT	33MF 10MF 33MF 10MF 0.001MF	20% 20% 20% 20% 10%	16V 16V 16V 16V 50V	C1167 C1168 C1169	1-102-824-00 1-123-380-00 1-102-824-00 1-123-356-00 1-123-360-00	ELECT CERAMIC ELECT	470PF 1MF 470PF 10MF 100MF	5% 20% 5% 20% 20%	50V 50V 50V 16V 50V
C1106 1-123-356-00 C1107 1-123-356-00 C1108 1-102-074-00 C1109 1-106-196-00 C1110 1-123-380-00	ELECI CERAMIC MYLAR	10MF 10MF 0.001MF 0.01MF 1MF	20% 20% 10% 10% 20%	16V 16V 50V 100V 50V	C1172 C1174 C1175	1-124-607-11 1-123-346-00 1-106-208-00 1-123-364-00 1-123-359-00	ELECT MYLAR ELECT	2200MF 220MF 0.033MF 1000MF 47MF	20% 20% 10% 20% 20%	50V 35V 100V 50V 35V
C1111 1-106-212-00 C1112 1-106-196-00 C1113 1-123-382-00 C1114 1-123-380-00 C1115 1-130-275-00	MYLAR ELECT ELECT	0.047MF 0.01MF 3.3MF 1MF 0.0012MF	10% 10% 20% 20% 5%	100V 100V 50V 50V 100V	C1178 C1179 C1180	1-106-212-00 1-106-212-00 1-123-359-00 1-123-364-00 1-106-208-00	MYLAR ELECT ELECT	0.047MF 0.047MF 47MF 1000MF 0.033MF	10% 10% 20% 20% 10%	100V 100V 35V 50V 100V
C1116 1-123-380-00 C1117 1-123-380-00 C1118 1-123-321-00 C1119 1-106-172-00 C1120 1-106-188-00	ELECT ELECT MYLAR	1MF 1MF 220MF 0.001MF 0.0047MF	20% 20% 20% 10% 10%	50V 50V 16V 100V 100V	C1184 C1185 C1186	1-123-346-00 1-123-356-00 1-123-380-00 1-123-380-00 1-123-380-00	ELECT ELECT ELECT	220MF 10MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	35V 16V 50V 50V 50V
C1121 1-102-112-00 C1122 1-123-369-00 C1123 1-123-380-00	ELECT	330PF 4.7MF 1MF	10% 20% 20%	50V 25V 50V	C1189	1-123-380-00 1-102-074-00 1-123-333-00	CERAM IC	1MF 0.001MF 100MF	20% 10% 20%	50V 50V 16V



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description	<u>1</u>			<u>Remark</u>
C1200 1-130-281-00 C1201 1-131-343-00 C1202 1-131-343-00 C1203 1-130-281-00 C1204 1-131-345-00	TANTALUM TANTALUM FILM	0.0022MF 0.22MF 0.22MF 0.0022MF 0.47MF	5% 10% 10% 5% 10%	100V 35V 35V 100V 35V	Q1107 Q1108 Q1109	8-729-245-83 8-729-245-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SA 1048GF 2SC 2458	<b>}</b>		
C1205 1-130-309-00 C1206 1-130-285-00 C1207 1-130-285-00 C1208 1-130-285-00 C1209 1-130-285-00	FILM FILM FILM	0.033MF 0.0033MF 0.0033MF 0.0033MF	5% 5% 5% 5% 5%	100V 100V 100V 100V 100V	01112 01113 01114	8-729-204-83 8-729-204-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GF 2SC2458 2SC2458			
C1210 1-131-371-00 C1211 1-123-332-00 C1212 1-102-125-00 C1213 1-130-297-00 C1214 1-123-586-00	ELECT CERAMIC FILM	10MF 47MF 0.0047MF 0.01MF 0.1MF	10% 20% 10% 5% 20%	16V 16V 50V 100V 50V	Q1117 Q1118 Q1119	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2458 2SC2458 2SC2458			
C1215 1-123-380-00 C1216 1-130-281-00 C1217 1-123-380-00 C1218 1-123-380-00 C1219 1-123-382-00	FILM ELECT ELECT	1MF 0.0022MF 1MF 1MF 3.3MF	20% 5% 20% 20% 20%	50V 100V 50V 50V 50V	Q1123	8-729-378-84 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SC 2458			
C1220 1-123-356-00 C1221 1-102-125-00 C1222 1-123-380-00	CERAM IC	10MF 0.0047MF 1MF	20% 10% 20%	16V 50V 50V	R1101 R1102	RES 1-247-831-00 1-247-831-00		1K 1K	5% 5%	1/6W 1/6W	
C1223 1-131-368-00 C1224 1-123-369-00	TANTALUM ELECT	3. 3MF 4. 7MF	10% 20%	16V 50V	R1103 R1104	1-247-867-00 1-247-819-00 1-247-837-00	CARBON CARBON	33K 330 1.8K	5% 5% 5%	1/6W 1/6W 1/6W	
C1225 1-123-356-00		10MF	20%	16V		1-247-847-00		4.7K	5%	1/6W	
<u>DIO</u>	<del></del>					1-247-851-00		33K 6.8K		1/6W 1/6W	
D1101 8-719-911-19 D1102 8-719-911-19 D1103 8-719-911-19 D1104 8-719-911-19	DIODE 1SS119				R1110	1-247-859-00 1-247-859-00 1-247-849-00	CARBON	15K 15K 5• 6K	5% 5% 5%	1/6W 1/6W	
D1104 8-719-102-74		-N2			R1112	1-247-859-00	CARBON	15K	5%	1/6W 1/6W	
D1106 8-719-102-74	DIODE RD6.2E	-N2			R1113 R1114 R1115	1-247-881-00	CARBON · CARBON	2.2K 120K	5% 5% 5%	1/6W 1/6W	
IC					1		CARBON	2.2K	-,-	1/6W	
IC1101 8-759-800-18 IC1102 8-759-271-33		ř			R1117	1-247-871-00 1-247-853-00	CARBON		5% 5%	1/6W 1/6W	
IC1103 8-759-145-58	IC UPC4558C				R1119	1-247-866-00 1-247-847-00	CARBON	30K 4.7K	5% 5%	1/6W 1/6W	
IC1104 8-759-140-66 IC1105 8-759-400-88						1-247-891-00		330K	5%	1/6W	
IC1106 8-759-140-66					R1122	1-247-879-00 1-247-839-00	CARBON	100K 2.2K	5% 5%	1/6W 1/6W	
IC1107 8-759-907-16 IC1108 8-749-943-62 IC1109 8-759-145-58	IC STK-4362				R1124	1-247-831+00 1+247-857-00 1-247-855-00	CARBON	1K 1 <i>2</i> K 10K	5% 5% 5%	1/6W 1/6W 1/6W	
TRA	NS ISTOR				R1126	1-247-855-00		10K	5%	1/6W	
Q1101 8-729-245-83 Q1102 8-729-245-83 Q1103 8-729-245-83	TRANSISTOR 25	SC2458 SC2458		!	R1129	1-215-433-00 1-215-433-00	CARBON METAL METAL CARBON		5% 1% 1% 5%	1/6W 1/6W 1/6W 1/6W	
Q1104 8-729-204-83 Q1105 8-729-245-83	TRANSISTOR 25				R1132	1-247-827-00 1-247-855-00		680 10K	5% 5%	1/6W 1/6W	



Ref.No. Part No.	Description				Remark	Ref.No.	Part No.	<u>Description</u>				Remark
R1134 1-247-855-00 R1135 1-247-843-00 R1136 1-247-803-00 R1137 1-247-835-00 R1138 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	3.3K 68 1.5K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1190 R1191 R1192 R1193 R1194	1-247-811-00 1-247-823-00 1-247-855-00 1-247-855-00 1-247-855-00	CARBON CARBON CARBON CARBON CARBON	150 470 10K 10K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1139 1-247-861-00 R1140 1-247-851-00 R1141 1-247-871-00 R1142 1-247-871-00 R1143 1-247-871-00	CARBON CARBON CARBON CARBON CARBON	6.8K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1195 R1196 R1197 R1199 R1200	1-247-879-00 1-247-879-00 1-247-855-00 1-247-879-00 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	100K 100K 10K 100K 100K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1144 1-247-843-00 R1145 1-246-485-25 R1146 1-247-851-00 R1147 1-247-861-00 R1148 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	3.3K 6.8K 18K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R1203 R1204 R1205 R1206 R1207	1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 1K 1K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1149 1-247-863-00 R1150 1-215-486-00 R1151 1-214-785-00 R1152 1-215-469-00 R1153 1-214-777-00	CARBON METAL METAL METAL METAL	220K 100K	5% 1% 1% 1% 1%	1/6W 1/6W 1/4W 1/6W 1/4W	i		1-247-865-00 1-247-847-00 1-247-879-00 1-247-847-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	27K 4.7K 100K 4.7K 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1154 1-214-785-00 R1155 1-215-493-00 R1156 1-215-493-00 R1157 1-246-529-00 R1158 1-247-879-00	ME TAL ME TAL ME TAL CARBON CARBON	1M 1M	1% 1% 1% 5% 5%	1/4W 1/6W 1/6W 1/4W 1/6W	:	R1214 R1215 R1216 R1217 R1218	1-247-879-00 1-247-881-00 1-247-893-00 1-211-427-00 1-247-825-00	CARBON CARBON CARBON CARBON CARBON	100K 120K 390K 100 560	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/8W 1/6W	F
R1159 1-247-886-00 R1160 1-247-115-00 R1161 1-247-863-00 R1162 1-247-847-00 R1163 1-247-851-00	CARBON CARBON CARBON CARBON CARBON	220 22K 4.7K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R1220 R1221 R1222 R1223 R1224	1-247-859-00 1-247-861-00 1-211-401-00 1-211-401-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	15K 18K 4.7 4.7 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/8W 1/8W 1/6W	F F
R1164 1-247-861-00 R1165 1-247-848-00 R1166 1-247-835-00 R1167 1-247-833-00 R1168 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	5.1K 1.5K 1.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1225 R1226 R1227 R1229 R1230	1-246-503-25 1-247-859-00 1-247-831-00 1-247-825-00 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	18K 15K 1K 560 100K	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	
R1170 1-247-849-00 R1171 1-247-777-00 R1172 1-247-823-00 R1173 1-247-841-00 R1174 1-247-829-00		5.6 470	5% 5% 5% 5% 5%	1/6W 1/8W 1/6W 1/6W 1/6W	F	R1231 R1232 R1233 R1234 R1237	1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 1K 1K 1OOK	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1175 1-247-839-00 R1176 1-247-815-00 R1177 1-247-863-00 R1180 1-247-855-00 R1181 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	220 22K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1241 R1243 R1245 R1246 R1247	1-247-855-00 1-247-862-00 1-247-867-00 1-247-843-00 1-247-885-00	CARBON CARBON CARBON CARBON CARBON	10K 20K 33K 3.3K 180K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1182 1-247-838-00 R1183 1-247-838-00 R1184 1-247-829-00 R1185 1-247-829-00 R1186 1-247-838-00	CARBON CARBON CARBON CARBON CARBON	2K 820 820	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1248 R1249 R1250 R1251 R1252	1-247-885-00 1-247-847-00 1-247-847-00 1-247-863-00 1-247-843-00	CARBON CARBON CARBON CARBON CARBON	180K 4.7K 4.7K 22K 3.3K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1187 1-247-879-00 R1188 1-247-855-00 R1189 1-247-855-00	CARBON CARBON CARBON	10K	5% 5% 5%	1/6W 1/6W 1/6W	· ·	R1253 R1254 R1255	1-247-865-00 1-247-847-00 1-247-847-00	CARBON CARBON CARBON	27K 4.7K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W	







Ref.No. Part No.	Description			<u>Remark</u>	Ref.No.	Part No.	Description			Remark					
R1256 1-247-843-00 R1257 1-247-811-00		3.3K 5% 150 5%	1/6W 1/6W			<u>DIO</u>	DE a		٠.						
R1257 1-247-811-00 R1258 1-247-843-00 R1259 1-247-869-00	CARBON	3.3K 5% 39K 5%	1/6W 1/6W		D1701	8-719-911-19	DIODE 188119		*	*					
R1260 1-247-893-00		390K 5%	1/6W			<u>601</u>	<u>L</u> ,								
R1261 1-247-885-00 R1262 1-247-844-00		180K 5% 3.6K 5%	1/6W 1/6W	•	L1701	1-408-242-00	MICRO INDUCTO	R 10MMH							
R1263 1-247-893-00 R1288 1-247-848-00	CARBON	390K 5% 5.1K 5%	1/6W 1/6W			<u>TRA</u>	NSISTOR								
R1289 1-247-885-00		180K 5%	1/6W				TRANSISTOR 2S TRANSISTOR 2S								
R1290 1-247-811-00 R1291 1-247-843-00		150 5% 3.3K 5%	1/6W 1/6W	•	,	RES	<u>ISTOR</u>		*.						
R1292 1-247-831-00 R1293 1-247-844-00	CARBON	1K 5% 3.6K 5%	1/6W 1/6W		R1701	1-247-839-00	CARBON	2.2K 5%	1/6W						
R1294 1-247-887-00		220K 5%	1/6W			1-247-855-00 1-247-847-00		10K 5% 4.7K 5%	1/6W 1/6W						
R1295 1-215-421-00	METAL	1K 1%	1/6W			CON	INECTOR								
	RIABLE RESISTOR				XA1	*1-564-440-11	PLUG, CONNECT	OR (2.5MM)	4P						
RV1101 1-228-724-00 RV1102 1-228-723-00	RES. ADJ. CER/	AMIC CARBO	N 4.7K		*****	*****	*****	*****	****	*****					
RV1103 1-228-720-00 RV1104 1-228-722-00 RV1106 1-228-724-00	RES, ADJ, CER/ RES, ADJ, CER/	AMIC CARBO AMIC CARBO	N 1K N 3.3K			*1-613-413-11	Z BOARD								
RV1107 1-228-721-00	RES, ADJ, CER/	AMIC CARBO	N 2.2K			<u>JACK</u>									
RV1108 1-228-721-00 RV1109 1-228-725-00 RV1110 1-228-724-00	RES, ADJ, CERA	AMIC CARBO	N 22K		J001 J002 J003	1-507-806-00 1-507-940-21 1-507-940-21	JACK, AV								
<u>TR</u>				SISTOR											
T1101 1-235-386-11 T1102 1-235-387-11	FILTER, BAND	PASS PASS			R001	1-244-851-51		120 5%	1/2W						
T1103 1-235-400-11 T1104 1-231-726-00	FILTER, LOW PA	ASS (L.P.F	)		R002	1-244-851-51	CARBON	120 5%	1/2W						
T1105 1-231-726-00	FILTER, LOWPA	SS					INECTOR								
<u>co</u>	NNECTOR		•		Z2	*1-564-441-11	PLUG, CONNECT PLUG, CONNECT	FOR (2.5MM)	5P						
X1 *1-564-353-00 X2 *1-564-354-00	PLUG, CONNECT	OR (2.5MM) OR (2.5MM)	2P 3P				PLUG, CONNECT PLUG, CONNECT								
X3 *1-508-765-00					*****	*****	*****	*****	*****	*****					
X5 *1-564-442-11	PLUG, CONNECT	OR (2.5MM)	6P				CELLANEOUS								
		PLUG, CONNECTOR (2.5MM) 7P PLUG, CONNECTOR (2.5MM) 4P													
******	*****	****	*****	*****	<u>A</u>	1.1-417-125-11	RESISTOR ASS SELECTOR, AND	TENNA							
*1-614-651-11	XA BOARD ******				4	1-451-255-11 1-452-032-00 1-452-094-00		; 10MM ø							
<u>C</u> A	PACITOR					1-452-146-21	MAGNET, BMC CRT NECK ASS	r (NA 202)							
C1701 1-102-117-00	CERAMIC	820PF 680PF	10% 10%	50V 50V	1	*1-557-056-00	CABLE, P-P CORD, POWER								
C1702 1-102-116-00 C1703 1-123-356-00	ELECT	10MF 10MF	20% 20%	16V 16V			COIL, DEGAUSS								
C1704 1-123-356-00	ELECT.	10111	20%	101	I PARA A	To T -450 .000 01	marr, prango		ngapteMM62X	storythic Fire Still Sti					

Aural St

Ref.No. Part No. Description Remark L907 A.1-426-059-31 COIL, DEGAUSSING 30030 T901 A.1-439-339-12 TRANSFORMER ASSY, FLYBACK V901 A.8-736-651-05 CRT (A64JRJ10X) 01 OFFICE-013-8 TOURD

### ACCESSORIES AND PACKING MATERIALS

Part No.	<u>Description</u>	Remark
A-1470-681-A 1-513-379-00 4-337-844-00 4-374-194-01 4-374-195-01	COMMANDER ASSY(RM=724) CONVERTER (EAC-25) BAG, PROTECTION CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY)	
4-374-402-01 4-482-023-21 4-491-213-22	SHEET, CORRUGATED FIBERBOARD MANUAL, INSTRUCTION INSTRUCTION	
4-374-321-01 4-374-324-01	INDIVIDUAL CARTON (FOR BEIGE) INDIVIDUAL CARTON (FOR PLUM)	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

# RM-724

## SERVICE MANUAL



December, 1984

#### **SPECIFICATIONS**

Power requirements 3 V dc

Battery size AA x 2

(IEC Battery Designation R6)

Dimensions Approx.  $55 \times 20 \times 175 \text{ mm (w/h/d)}$ 

 $(2^{1}/_{8} \times {7}/_{8} \times 6^{7}/_{8} \text{ inches})$ 

Weight

Approx. 130 g (4.6 oz)

incl. batteries

Accessories supplied

Battery size AA (2 pcs.)

Design and specifications subject to change without notice.

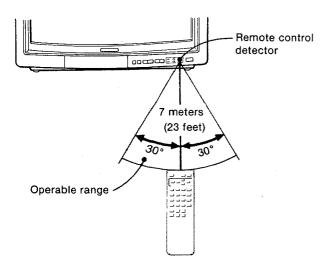


#### REMOTE COMMANDER

- 1 Turn the Remote Commander face down, press the tab and lift the cover.
- 2 Place batteries in the Commander with the polarities in the correct directions, as illustrated inside the case.
- 3 Replace the cover.

#### **Notes**

- Use 2 size AA batteries (IEC designation R6).
- In normal operation, batteries will last up to half a year. If the set does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Commander and the TV.
- Operable range is limited.

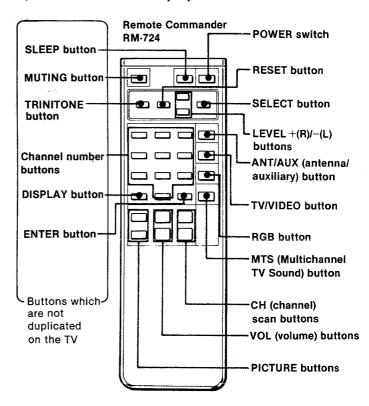


#### **OPERATION**

#### **VIEWING TV PROGRAMS**

This TV set is capable of receiving normal VHF and UHF broadcasts plus cable TV channels. (See "Cable TV channel chart" below.)

Usually the Remote Commander is all that is needed to operate the TV set in everyday use.

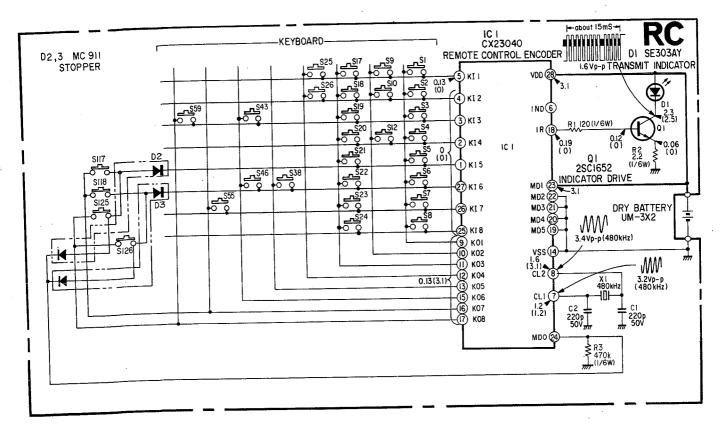


2 3 5 6 Α MOUNTING DIAGRAMS - Conductor Side -В C D Ε CX23040 2SC1652 MC911 SE303AY **SLR-932A** F All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu F$ G 50WV or less are not indicated except for electrolytics. All resistors are in ohms, 1/6W unless otherwise noted.  $k\Omega = 1000\Omega, M\Omega = 1000k\Omega$ Voltages and waveform are for when 1 button is pressed. Voltages in ( ) are taken with button not pressed. All voltages are in V. Н Voltages are dc with respect to ground unless otherwise Voltage variations may be noted due to normal production tolerances. - : B + bus.



3 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

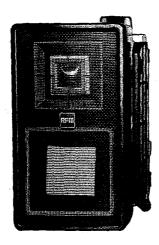
#### SCHEMATIC DIAGRAM

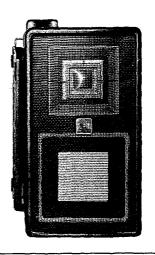


VEY MA	TRI	( TABLE												ко 7	Τ	к08	1		
KE I WIT	1 1 1 1 1 7			K0 2	I	K0.3	1	KO 4		KO5		к06					<del> </del>		<del></del>
	L	K01	1 = T	NO E	SI7	CH +	S 25	PICTURE +	S33		S41		549		S57		18/11/	LEVEL + (R)	_
KII	SI		59		+		-		S 34		S42		\$50		\$58		SH8	LEVEL - (L)	
K12	S2	2	SIO	0	518	CH -	S 26	PICTURE -							++	DISPLAY	S125		$\neg$
		<del></del>	SII		SI9	VOL +	S27		\$35		\$43	ANT/AUX	551		S59	DISFLAI			
K13	S3	3		TALES	\$20	VOL -	528		\$36	, ,	S44		\$52		S60		\$126	TRINITONE.	
KI 4	S4	4	\$12	ENTER	-				-				\$53		561				
	06	- 5	S13		\$21	MUTING	S29						_		<del> </del>		1		
	+		+		522	POWER	S30		S38	TV/VIDEO	S46	RGB	S 50		562		4		
K16	S6 _	6	-		+				630		\$47		S 55	SLEEP	S63		Į.		
V17	57	7	\$15														1		
		- 0	S 16		\$24	MTS	S32		540		548	·	330		304				
K15 K16 K17	S5. S6 S7 S8	5 6 7 8	S13 S14 S15 S16		\$21 \$22 \$23 \$24	MUTING POWER RESET MTS	\$29 \$30 \$31 \$32		\$37 \$38 \$39 \$40	TV/VIDEO	\$45 \$46 \$47 \$48		\$50	SLEEP	\$62 \$63 \$64				

# APM-X3U

## **SERVICE MANUAL**





December, 1984

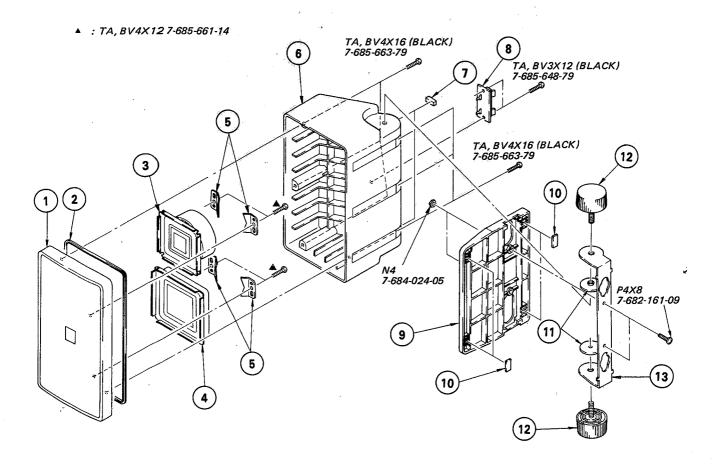
#### **SPECIFICATIONS**



#### EXPLODED VIEW

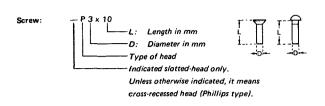
NOTE:

- NOTE:
   Items with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1 2 3 4 5 6 7	*4-907-707-01 8-927-199-00 8-927-189-00 4-907-702-11 4-907-710-01	SPEAKER UNIT (060P001) HOLDER, SP		8 9 10 11 12 13	4-907-709-01 4-907-703-02 4-907-705-01 4-907-701-01	CUSHION, LEG	

#### HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
		SCREWS	
Р	€	pan-head screw	binding-head (B) screw for replacement
PWH	€	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	8\$3-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	<b>9%</b>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€3	round-head screw	binding-head (B) screw for replacement
к	₽	flat-countersunk-head screw	
RK	€	oval-countersunk-head screw	
8	₽	binding-head screw	
т	<b>4</b> =3	truss-head screw	binding-head (B) screw for replacement
F	₽⊃	flat-fillister-head screw	
RF	€3	fillister-head screw	
BV	€3	braizer-head screw	

Nut, Washer	, Retaining ring:
	N 3
	Reference designation

Reference Designation	Shape	Description	Remarks					
		SELF-TAPPING SCRE	ws					
TA		self-tapping screw	ex: TA, P3 x 10					
PTP	<del></del>	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement					
PTPWH	<del></del>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement					
PTTWH	<b>⊕</b>	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement					
· · · · · · · · · · · · · · · · · · ·	·	SET SCREWS						
SC		set screw						
sc	-00	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket					
		NUT						
N	-0-0-	nut						
		WASHERS						
W	0	flat washer						
SW		spring washer						
LW	0	internal-tooth lock washer	ex: LW3, internal					
LW	0	external-tooth lock washer	ex: LW3, external					
		RETAINING RINGS						
Ε	6	retaining ring						
G	୍ଷ	grip-type retaining ring						

**Sony Corporation TV Group** 

**- 100 -**

## KV-25XBR BM-724/APM-X3U

## SONY. SERVICE MANUAL

US Model
Chassis No. SCC-595B-A

May,1985

No. 1

**SUPPLEMENT** 

SUBJECT: CIRCUIT MODIFICATIONS

File the supplement with the service manual.

#### TABLE OF CONTENTS

<u>Se</u>	<u>ction</u>	3	Title	•							Page
1.	GENERAL										
	Set-up								٠		2
5.	DIAGRAMS										
	Schematic Diagrams										3
	Semiconductors						:				. 8
7.	ELECTRICAL PART	IS LIS	T.								18





#### SECTION 1 **GENERAL**

SET-UP

#### LISTENING TO MULTICHANNEL TV SOUND(MTS) **BROADCASTS**

In the years to come, an increasing number of programs will be broadcast in stereo. Called Multichannel TV Sound or MTS, the new technology will greatly enhance TV viewing by bringing you programs with high fidelity stereo sound. MTS also provides for an extra channel called the Second Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmissions or some other sound track.

To receive a stereo program

Normally set the AUTO STEREO selector to ON (depressed). In this position, the STEREO lamp on the TV will light up whenever a stereo broadcast is received. To listen to the stereo sound, select the MAIN mode with the MTS button so that the on-screen MAIN indicator appears. The stereo sound will be heard from the left and right speakers.

Every push on the MTS button changes the indicator below the channel number as follows:

MAIN	 SAP	 BOTH
<b>*</b>		1

When there is a SAP (Second Audio Program) broadcast Select the SAP mode so that the SAP indicator will be displayed and only the SAP sound will be heard from both speakers.

To listen to both MAIN and SAP broadcasts

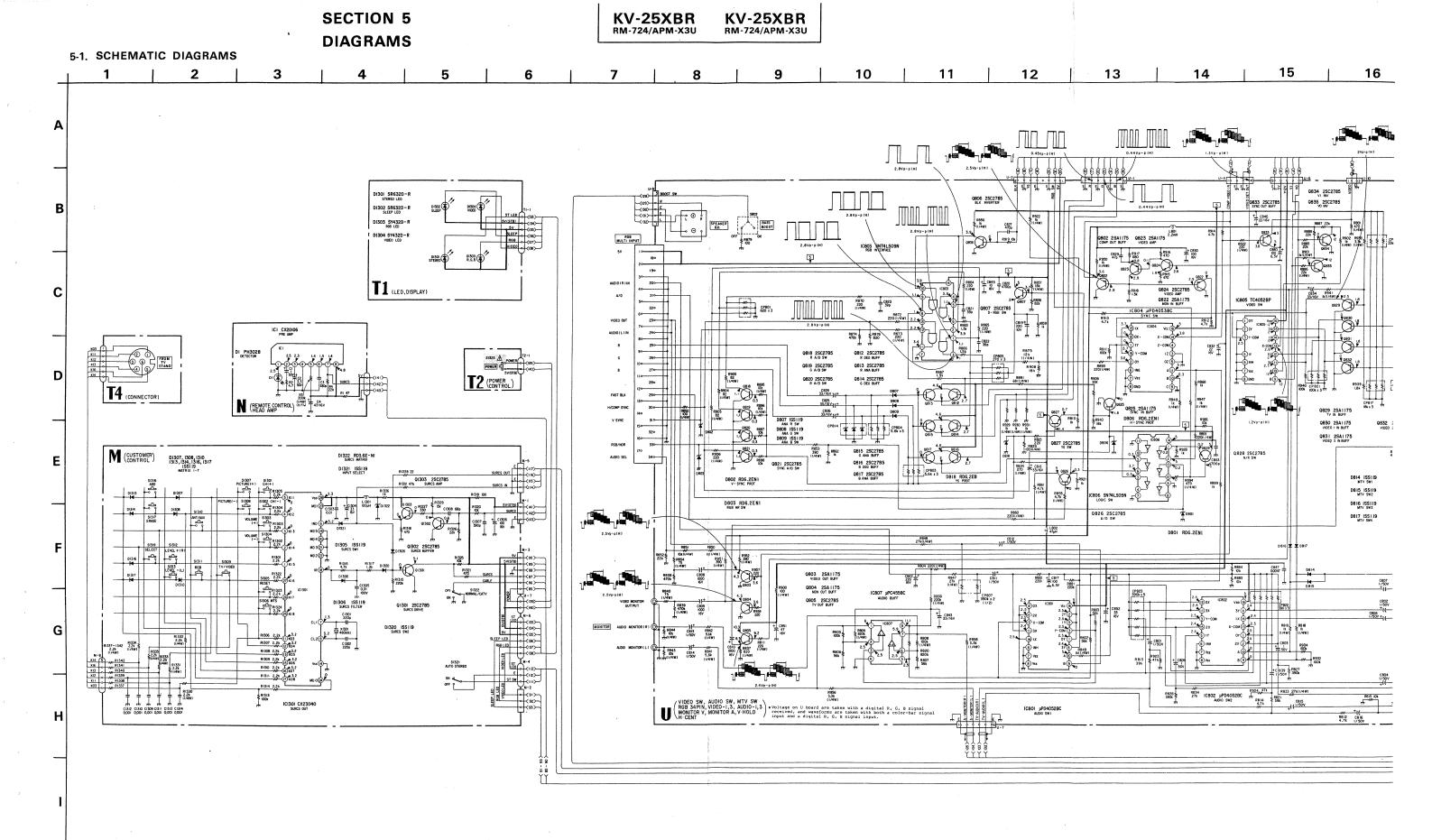
Select the BOTH mode so that the BOTH indicator is displayed. The MAIN and SAP sounds will come out from the left and right speakers respectively.

The MAIN sound becomes monaural(mixed) even if it is a stereo broadcast, as the sound comes only from the left speaker.

#### Notes

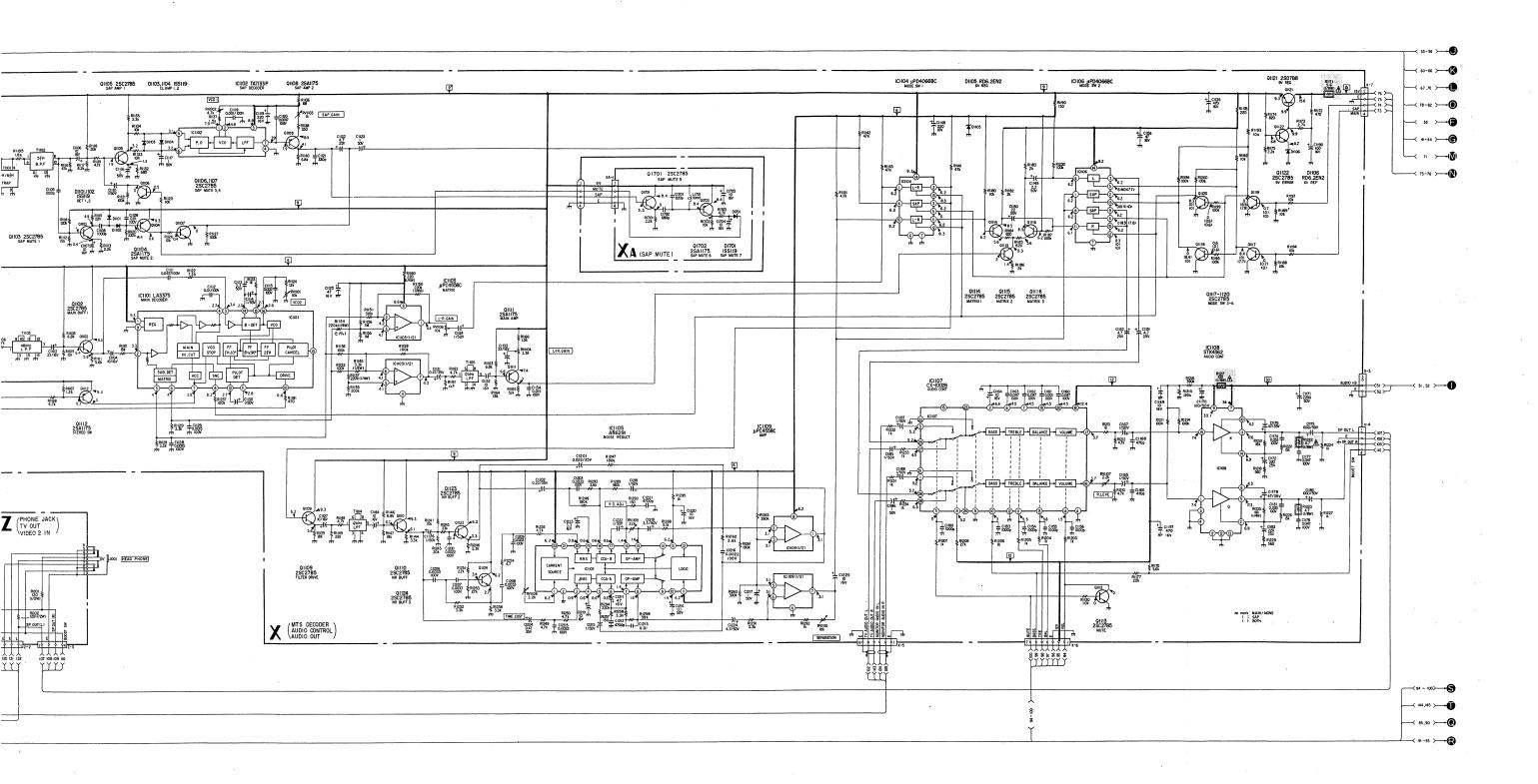
• The selected mode will be retained even after the power has once been turned off.

• There may be cases of stereo broadcasts where excessive "noise" will be heard due to a weak incoming signal. By switching the AUTO STEREO selector to OFF and returning to a monaural mode, the noise should be eliminated.



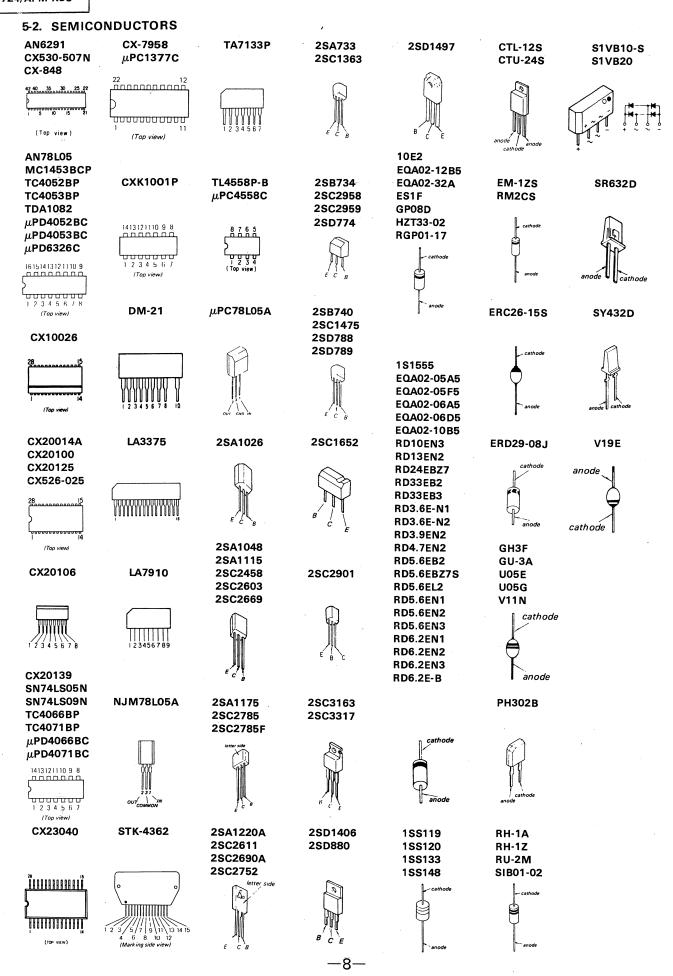
KV-25XBR RM-724/APM-X3U KV-25XBR RM-724/APM-X3U

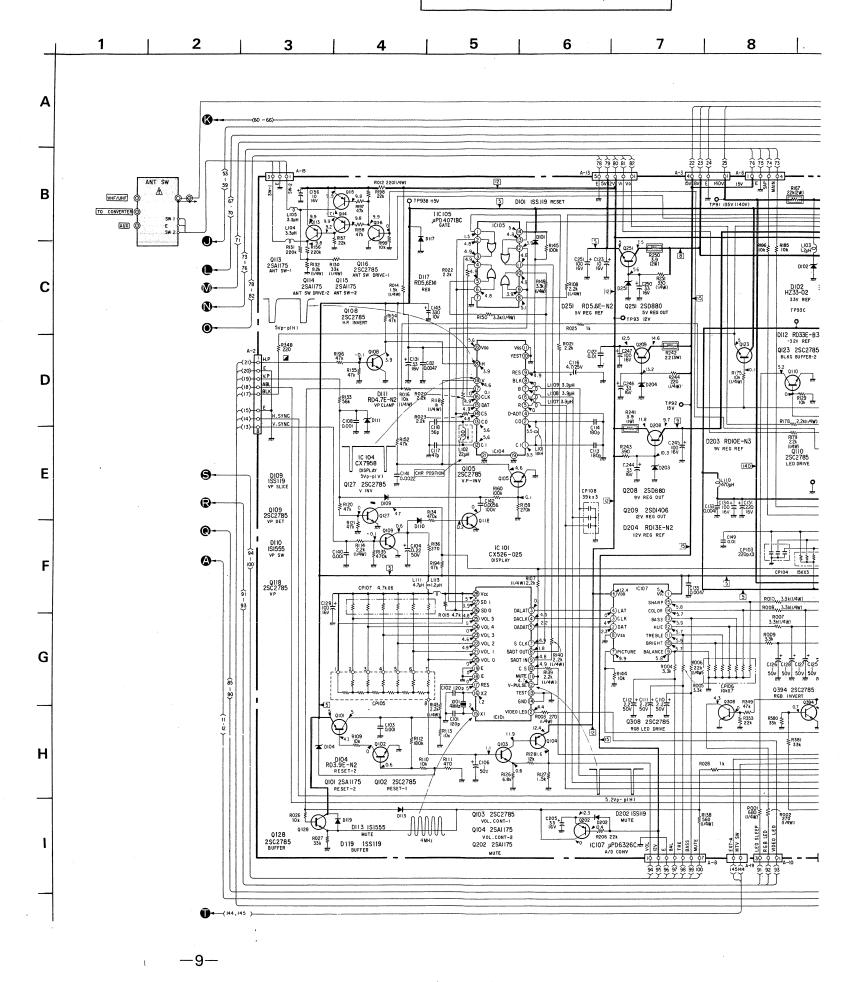
22 23 24 25 26 15 16 17 18 19 20 21 12 13 14 11 Q1101 2SC2785 Q1105 2SC2785 D1103,1104 ISS119 SAP AMP I CLAMP 1,2 QIIO8 2SAII75 SAP AMP 2 Q806 2SC2785 BLK INVERTER † C846 T 22/16V R902 R938 S S CP819 N74LSO9N R1140 T C1121 0824 25C2785 VIDEO AMP 0822 2SA 1175 MON IN BUFF R864 + C820 5 7.8657 11.00 7 47000 3 7.2 11.00 7 7. Q1103 2SC2785 SAP MUTE I Q1104 2SA1175 SAP MUTE 2 ICIIOI LA3375 MAIN DECODER Q1102 2SC 2785 MAIN BUFFI Q1111 2SA1175 MAIN AMP 777 0 0825 0825 2SA1175 0825 0825 2SA1175 0826 RD6.2EN1 H- SYNC PROT R1166' Q830 2SA1175 VIDEO 1 IN BUFF 1000 (a) 2007/4W (b) 2007/4W (c) 2007/4W ( Q831 2SA1175 VIDEQ 3 IN BUFF SNC PILOT DET R845 ₹ R846 470k ₹ 75 (1/4w) Q828 2SC2785 N/R SW Riller Onling \$ 0826 0.3 R921 R855 4.7% D814 ISS119 MTV SW1 D815 ISS119 MTV SW2 01112 2SA1175 STERED SW Rii29 Cii29 3.5 T0,0015 ICI 105 AÑ6291 NOISE REDUCT D816 ISS119 MTV SW3 RI128 C1128 3.3k T0.005 2826 2SC2785 R860 220(1/4W) D817 ISS 119 MTV SW4 C12 01 R1247 0.022/35V 180k D801 RD6.2EN1 R817 470 (I/4W) R848 27k((/4W) )|+ 1/50v R1248 180x W V-D. ADJ R290 C1221 150 4700p C847 Q0047 C1222 RVII09 C1219 R1288 R925 390k R830 27k(1/4₩ R001 120 (1/2W) (MTS DECODER AUDIO CONTROL AUDIO OUT R812 C816 4.7k 1/50V



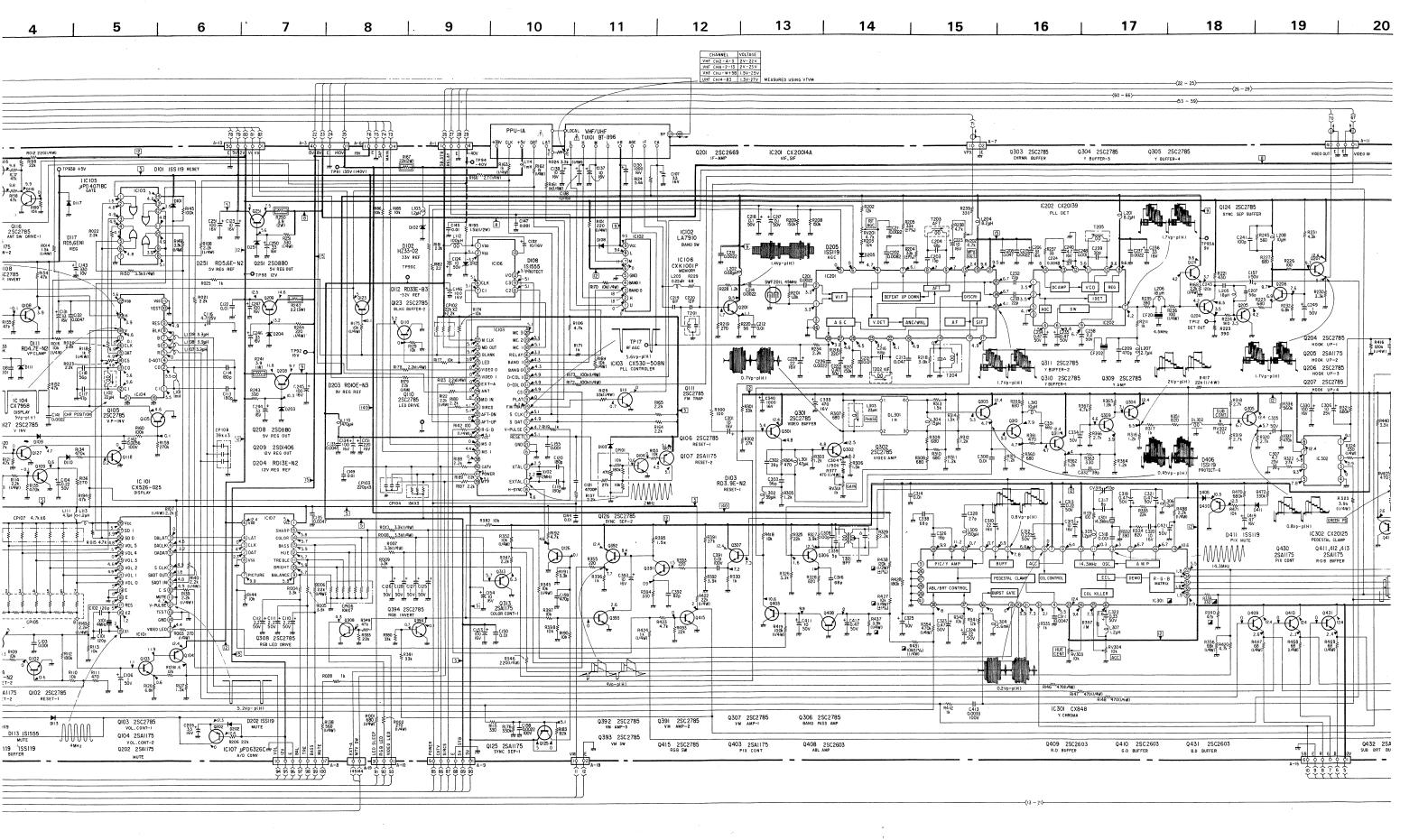
KV-25XBR RM-724/APM-X3U

KV-25XBR RM-724/APM-X3U

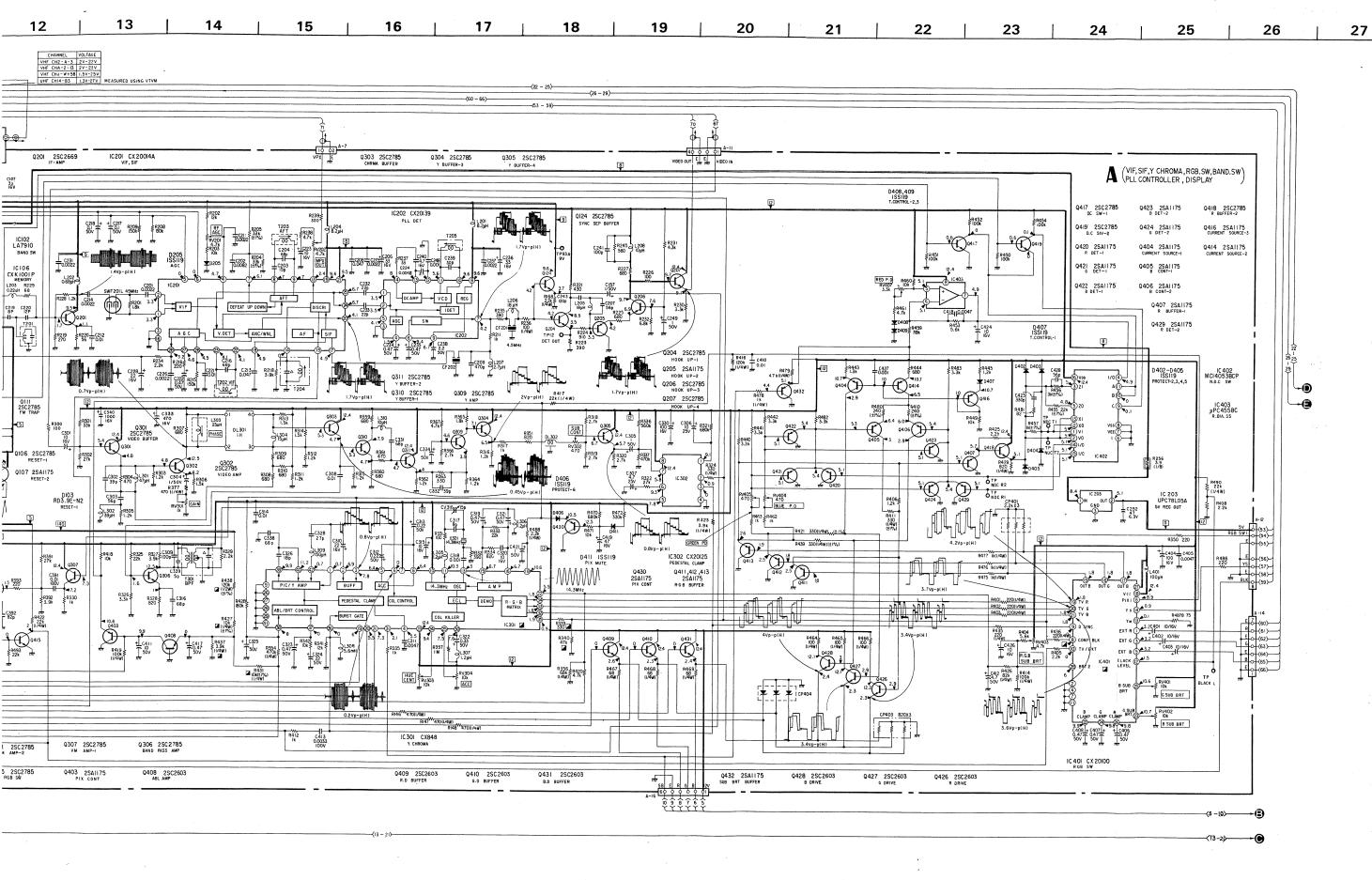


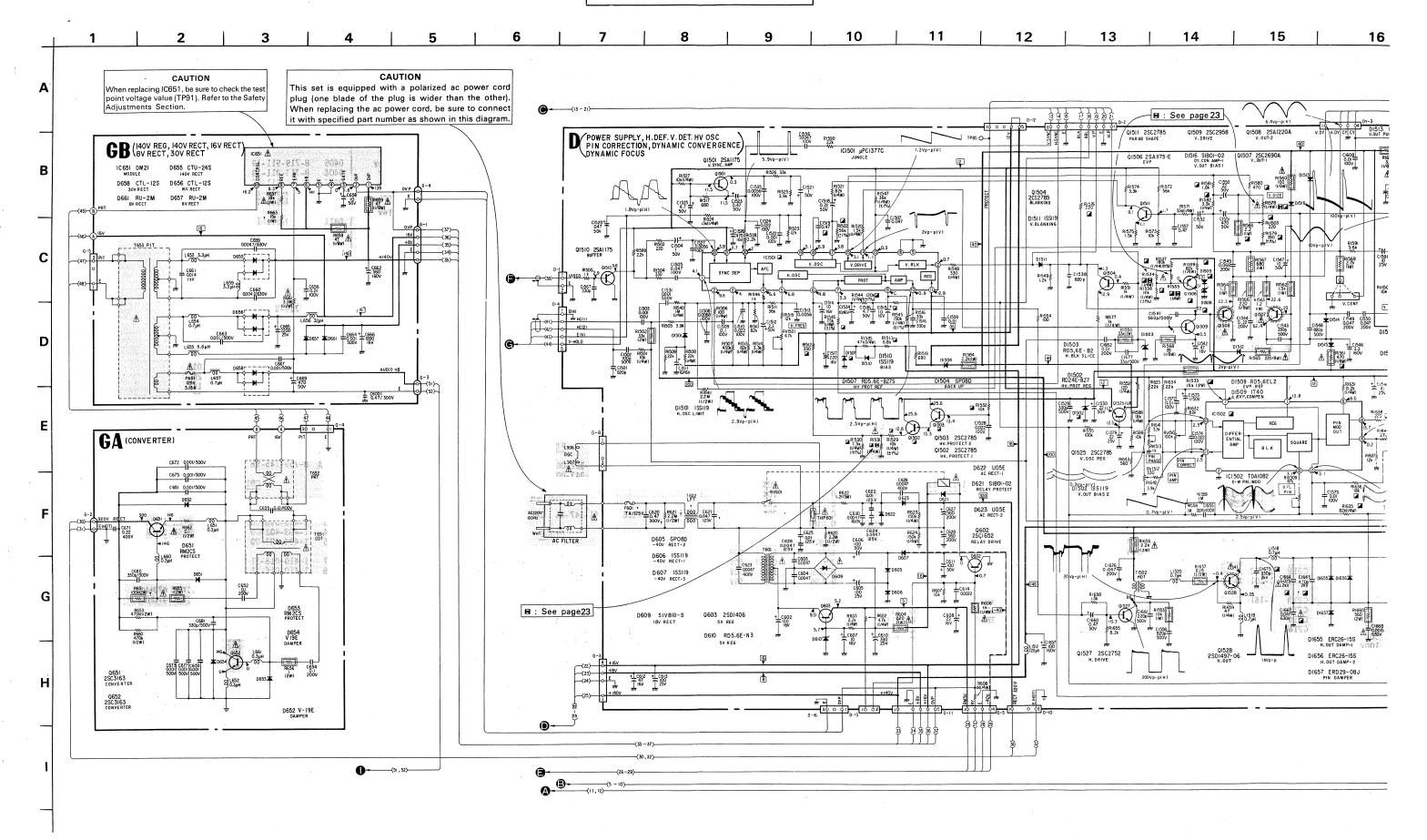


KV-25XBR KV-2! RM-724/APM-X3U RM-724/A

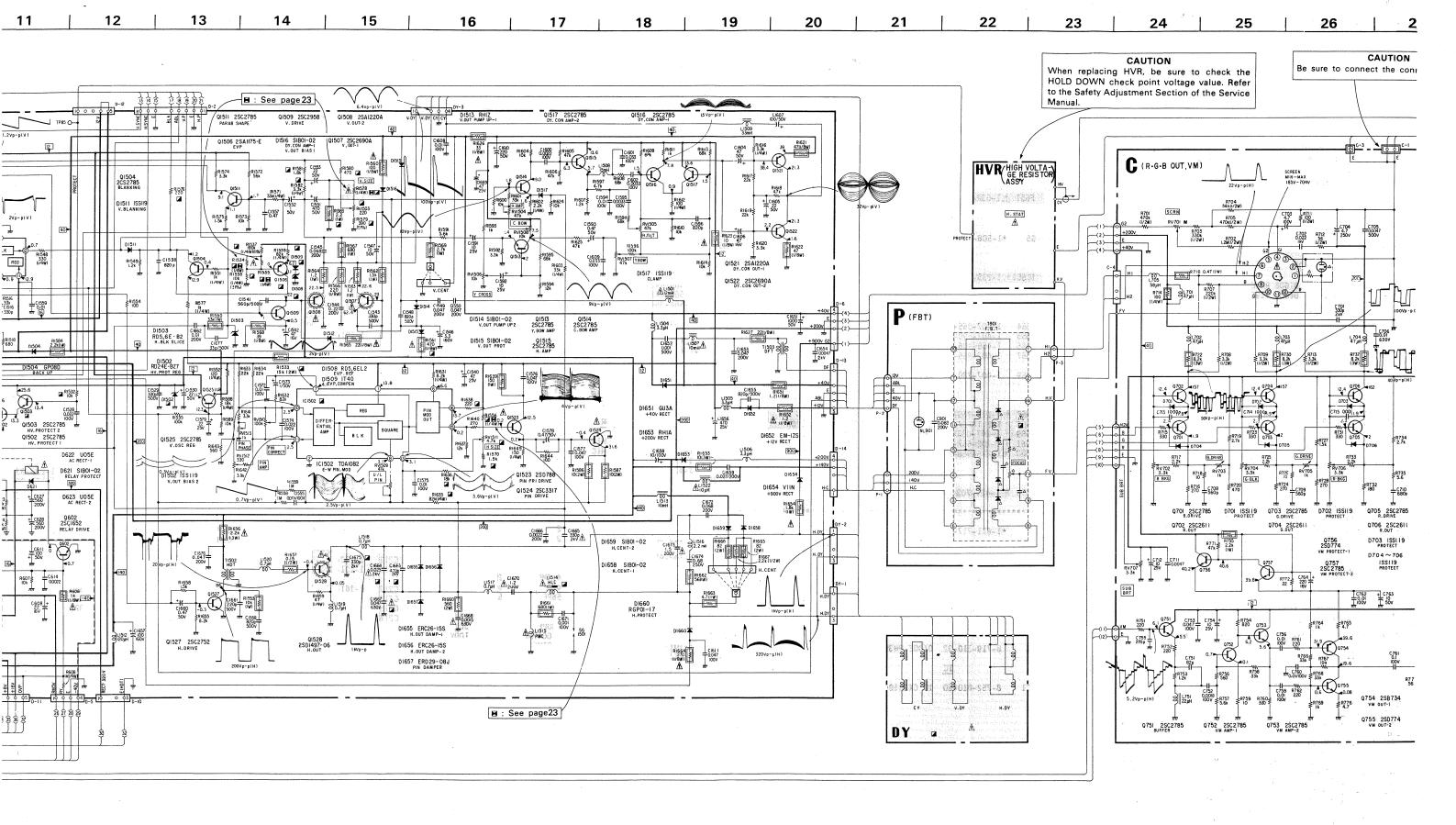


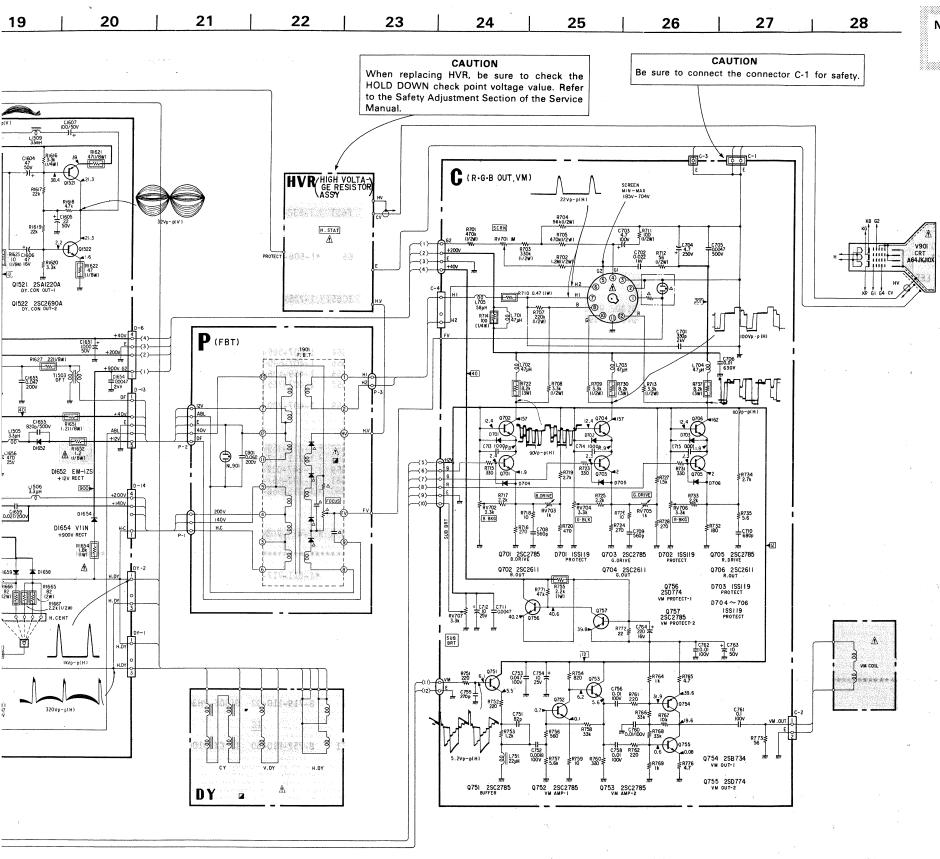
KV-25XBR RM-724/APM-X3U KV-25XBR RM-724/APM-X3U





KV-25XBR KV-25XBR RM-724/APM-X3U RM-724/APM-X3U





Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

- All Capacitors are in  $\mu$ F unless otherwise noted, pF:  $\mu\mu$ F 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted.

 $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$ 

- Standard for the M Board is 1/4W.
- nonflamable resistor.
- $\triangle$  : internal component.
- panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

(Refer to R1531, R1534, R1535, R1556, R1578, adjustment on page 23.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ( 🔲 )	Adjustment ( 🖼 )
D1502, D1507, IC1501 Q1502, Q1503, R427 R431, R437, R438 R1512, R1519, R1529 R1530, R1531, R1532 R1533, R1543, R1544 R1545	R1531
D1508, D1509, IC301 IC401, Q1506, R339 R340, R348, R436 R1534, R1535, R1537 R1538, R1539, R1561 R1576	R1534, R1535
C1663, C1664, C1667 C1675, IC1502, L1514 R1556, R1570, R1635 R1636, R1638, RV1511 FBT, DY	R1556
C1519, C1663, C1664 C1667, C1675, IC1501 L1514, R1522, R1578 R1579, R1580, R1581 R1582, R1583, RV1503 FBT DY	R1578

- All voltages are in V.

   Voltages are do with
  - Voltages are dc with respect to ground unless otherwise noted
  - ullet Readings are taken with a 10M $\Omega$  digital multimeter.
  - Readings are taken with a color-bar signal input.
  - ----: B+ b
  - --- : B bus
  - Voltage variations may be noted due to normal production tolerances.
  - : adjustment for repair.



### SECTION 7 **ELECTRICAL PARTS LIST**



NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors
- CAPACITORS
- RESISTORS F : nonflammable
- COILS
- The components identified by **\B** in this manual have have characteristic curve B, unless • All resistors are in ohms been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value

• MF : μF,			• MM	1H : InH,	UH : μ	i	originally u	t be required, sed.	, replace on	ly with	the value		
Ref.No. Part	t No.	Description			Remark	Ref.No.	Part No.	Description			Remark		
*1-61	13-420-21	T1 BOARD				C679A   C680   C681	1-106-359-00 1-102-030-00 1-102-030-00	CERAMIC	0.0047MF 330PF 330PF	10% 10% 10%	200V 500V 500V		
*4-34	15-701-00	HOLDER, LED					DIO	DE					
	DIO	DDE				   D651	8-719-301-18						
D1302 8-71	19-106-34 19-114-34	DIODE SR632D DIODE SR632D DIODE SY432D DIODE SY432D	) 			D652 D653 D654	8-719-901-93 8-719-301-18 8-719-901-93	DIODE V19E DIODE RM2CS					
*****	*****	*****	*****	*****	*****		CON	NECTOR					
*1-61	3-421-11	T2 BOARD				G4 	*1-508-765-00						
	CHI					1 651	<u>COI</u>	<del></del>	n.c				
	64-303-11	SWITCH, KEY		****	 *******	L651   L652   L660   L661	1-425-612-00 1-425-612-00 1-425-612-00	COIL, ARE-CO	RE RE				
<b>41</b> C1	2 414 11	D DOADD					TRA	NSISTOR					
~1-01	.3-414-11	*****					8-729-902-00 8-729-902-00			- 12			
	CAP	ACITOR					RES	ISTOR					
C901 1-10	08-431-00	MYLAR	0.068MF	10%	200V	   R651∧	1-214-597-61	METAL OXIDE	100K 5%	2₩	Fi i		
	NEO	N LAMP				R653	1-202-637-00 1-206-439-61	SOLID	470K 5%	1/2W	F		
NL 901 1-51	9-237-11	LAMP, NEON					1-206-439-00		1 5% 470K 5%	2W 1/2W	F		
*****	*****	******	******	*****	*****					-			
*1-61	3-422-11	T4 BOARD				[ R662 <u>A</u> 1-207-451-11 WIREWOUND 0.1 10% 1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/2W							
1-56	2-684-11	SOCKET, DIN	6P.			T651/A T652/A	1-421-695-11 1-421-710-11	CDT :		es Funks			
******	*****	*****	*****	*****	*****		*****				****		
*1-61	3-423-11	GA BOARD				,	1-613-424-11	GB BOARD					
		HOLDER, TR SPACER, MICA					CAP	<u>ACITOR</u>					
	CAP	ACITOR	•			C656 C658	1-106-196-00 1-123-356-00		0.01MF	10%	100V		
C652 1-13 C653 1-10 C654 1-13	2-038-00 6-103-00 2-038-00 6-103-00	CERAMIC FILM	0.001MF 0.1MF 0.001MF 0.1MF	5% 5%	500V 200V 500V 200V	C659 C660 C661	1-129-710-00 1-129-710-00 1-136-240-11	FILM FILM FILM	10MF 0.0047MF 0.0047MF 0.014MF	20% 10% 10% 5%	50V 630V 630V 1KV		
	6-131-00	FILM	0.12MF	5%	400 <b>V</b>	C662 C663	1-125-294-00 1-102-038-00	ELECT(BLOCK) CERAMIC	0.001MF	20%	160V 500V		
C672 1-10 C673 1-10	6-120-00 02-038-00 02-038-00	FILM CERAMIC CERAMIC	0.22MF 0.001MF 0.001MF	5%	400V 500V 500V	C664 C665 C666	1-102-038-00 1-123-338-00 1-123-324-00	CERAMIC ELECT ELECT	0.001MF 2200MF 1000MF	20% 20%	500V 25V 16V		
	02-038-00 02-038-00	CERAMIC CERAMIC	0.001MF 0.001MF		500V 500V	C667	1-102-038-00	CERAMIC	0.001MF		500 <b>v</b>		

KV-25XBR RM-724/APM-X3U

KV-25XBR RM-724/APM-X3U

## GB | N

Ref.No	. Part No.	Description			Remark	Ref.N
C 669	1-123-363-00	ELECT	470MF	20%	50V	!
	DI	ODE				R1
D 65 5	8-719-300-09 *4-347-706-00					R2   R3
D656	8-719-301-09	DIODE CTL-1				R4
D657 D658	8-719-302-00 8-719-301-09		2 <b>S</b>			**** 
D661	8-719-302-00	DIODE RU-2M	·			
	<u>FU</u>	<u>SE</u>				
F651	<b>▲ 1-532-595-11</b>	FUSE, GLASS	TUBE 125V	3.15A	en salangen sa	
	<u>C0</u>	NNECTOR				A1
G5	*1-508-765-00	3P PLUG (M)				A2 A3
	MOI	DULE				A6 A7
IC651,	1,1-235-445-11	MODULE, POWE	R (DM-21)		Magazota y	A8
	<u>CO</u> 1	<u>IL</u>				A9 A10
L 653 L 654	1-407-780-00 1-407-365-00	COIL, SPOOK	CHOKE		į	A11 A12
L655	1-407-690-00	COIL, CHOKE			-	
L65 <b>6</b> L657	1-459-406-00 1-407-365-00	COIL (WITH C	URE)			A13 A14
L 659	1-407-780-00	COIL, SPOOK	CHOKE		1	A15 A16 A18
	RES	ISTOR			ļ	A19
R658 Z R659 Z	↑ 1-215-969-51 ↑ 1-211-427-11 ↑ 1-247-033-11 ↑ 1-202-657-15	METAL CARBON CARBON SOLID	18K 100 5% 100 5%	1/8W 1/8W	F F	C101
	1,1-202-657-15 1,1-215-968-21	METAL	3.3M 5% 15K	1/2W 1W		C102 C103
	TRA	NSFORMER				C104 C106
T653 /	1-421-703-12	PIT		1 1 2	197234	C107
*****	******	******	******	******	  *******	C108 C110
	*1-611-717-11	N BOARD			İ	C111 C112
	CAP	ACITOR			!	C113 C114
C1	1-123-611-00	ELECT	1MF	20%	50V	C116
C2 C3	1-123-613-00	ELECT CERAMIC	3.3MF 330PF	20% 5%	50V 50V	C117 C118
C 4	1-123-821-00 DIO	ELECT	47MF	20%	16V	C119 C120
D1	8-719-110-32	DIODE PH302B			ļ	C121 C122
-	<u>IC</u>	21000 1110020			İ	C123
IC1	8-752-010-60	IČ CX20106			•	
101	2-/25-010-00	10 CV TOILO				

GB GA

arts by referease include

in this manual have each set in order to radiation. Should nly with the value

Remark

200V 500V 500V 10% 10% 10%

2W F 1/2W F 2W F 2W F 1/2W

% 1/2W

10% 20% 10% 10% 5% 100V 50V 630V 630V 1KV

\*\*\*\*\*

160V 500V 500V 20% 20**%** 20**%** 

25V 16V 500V GB N A

IC1 8-752-010-60 IC CX20106

Ref.No.	Part No.	Description			Remark	Ref.No.		Remark						
Ç 669	1-123-363-00	ELECT	470MF	20%	50V		RES	ISTOR						
D 655	<u>DIO</u> 8-719-300-09 *4-347-706-00	DIODE CTU-245				R1   R2   R3   R4	1-247-799-00 1-247-775-00 1-214-784-00 1-247-863-00	CARBON METAL	47 5% 4.7 5% 200K 1% 22K 5%	1/6W 1/6W 1/4W 1/6W				
D 656 D 657 D 658	8-719-301-09 8-719-302-00 8-719-301-09	DIODE CTL-129				DIODE CTL-12S DIODE RU-2M			  *****	*****	*****	*****	*****	*****
D661	8-719-302-00		•			*A-1295-916-A A BOARD, COMPLETE								
	FUS	<u>E</u>				1 A	.1-463-471-33 *1-551-382-00	SYNTHESIZER CABLE P-P	UNIT, FREQUI	ENCY				
F651 A	1-532-595-11	FUSE, GLASS	TUBE 125V	3.15A				NECTOR						
	CON	NECTOR					*1-564-440-11							
G5	*1-508-765-00	3P PLUG (M)					*1-564-444-11 *1-508-766-00		TOR (2.5MM)	8P				
	MOD			ve 1800 major state (1800)	000mg.co. +00-0000000000000000000000000000000000	A6	*1-564-440-11 *1-564-353-00	PLUG, CONNECT						
IC 651/	,1-235-445-11	MODULE, POWER	(DM-21)	F 3.	e digirana s	   A8	*1-564-443-11	PLUG, CONNEC	TOR (2.5MM)	7P				
	COI	<u>L</u>				A9	*1-564-442-11 *1-564-354-21	PLUG, CONNEC	TOR (2.5MM)	6P				
L653	1-407-780-00	COIL, SPOOK O	HOKE			A11	*1-564-440-11	PLUG, CONNECT	TOR (2.5MM)	4P				
L 654 L 655 L 656 L 657	1-407-365-00 1-407-690-00	COIL, CHOKE MICRO INDUCTO COIL (WITH CO	OR 5.6UH			   A13   A14   A15	*1-564-444-11 *1-564-441-11 *1-564-443-11 *1-564-354-00	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	5P 7P 3P				
L659	1-407-780-00	COIL, SPOOK O	HOKE				*1-564-442-11 *1-564-353-00							
	RES	ISTOR				İ	*1-564-353-00							
	1-215-969-51		18K 100 5%	1W 1/8W										
R659 🔏 R661 🔏	1-247-033-11 1-202-657-15 1-215-968-21	CARBON SOLID	100 5% 3.3M 5% 15K	1/8W 1/2W 1W		C101   C102   C103   C104   C106	1-102-816-00 1-102-816-00 1-102-074-00 1-123-447-00 1-123-380-00	CERAMIC CERAMIC	120PF 120PF 0.001MF 0.22MF 1MF	5% 5% 10% 20% 20%	50V 50V 50V 50V 50V			
T653 /	1-421-703-12	PIT		100	ymania igit/Sii	   C107	1-123-318-00	ELECT	33MF	20%	16V			
	************ *1-611-717-11		*****	*****	*****		1-101-001-00 1-123-381-00 1-123-381-00 1-123-381-00	CERAMIC ELECT ELECT	0.001MF 2.2MF 2.2MF 2.2MF	20% 20% 20%	50V 50V 50V 50V			
	CAP	ACITOR				C113	1-102-976-00 1-102-976-00		180PF 180PF	5% 5%	50V 50V			
C2 C3	1-123-611-00 1-123-613-00 1-102-820-00 1-123-821-00	ELECT CERAMIC	1MF 3.3MF 330PF 47MF	20% 20% 5% 20%	50V 50V 50V 16V	C116 C117 C118	1-123-369-00 1-101-880-00 1-101-884-00	ELECT CERAMIC	4.7MF 47PF 56PF	20% 5% 5%	25V 50V 50V			
C 4	DIO			20%		C119 C120	1-102-976-00 1-102-976-00	CERAMIC	180PF 180PF	5% 5%	50V 50V			
D1	8-719-110-32					C121   C122   C123	1-106-188-00 1-101-004-00 1-123-356-00	CERAMIC	0.0047MF 0.01MF 10MF	10% 20%	100V 50V 16V			
	<u>IC</u>					1 6123	1-123-350-00	LLLUI	TOPH	20%				

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Ref.No. Part No.	Description			Remark	lRef.No.	Part No.	Description			Remark
C124 1-123-356-00 C125 1-123-380-00 C126 1-123-380-00 C127 1-123-380-00 C128 1-123-380-00	ELECT ELECT ELECT ELECT ELECT	10MF 1MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	C221 C222 C223 C223 C226	1-161-013-00 1-123-379-00 1-123-356-00 1-102-121-00 1-123-330-00	CERAMIC ELECT ELECT CERAMIC ELECT	0.01MF 0.47MF 10MF 0.0022MF 22MF	10% 20% 20% 10% 20%	25V 50V 16V 50V
C129 1-119-129-00 C130 1-123-324-00 C131 1-123-318-00 C132 1-101-003-00 C133 1-101-003-00	ELECT ELECT ELECT CERAMIC CERAMIC	100MF 1000MF 33MF 0.0047MF 0.0047MF	20% 20%	16V 16V 16V 50V	C231 C232 C233 C234 C235	1-102-121-00 1-102-959-00 1-102-959-00 1-123-379-00 1-123-379-00	CERAMIC CERAMIC CERAMIC ELECT ELECT	0.0022MF 22PF 22PF 0.47MF 0.47MF	10% 5% 5% 20% 20%	50V 50V 50V 50V 50V
C134 1-123-333-00 C135 1-101-003-00 C137 1-123-356-00 C138 1-123-356-00 C139 1-123-356-00	ELECT CERAMIC ELECT ELECT ELECT	100MF 0.0047MF 10MF 10MF 10MF	20% 20% 20% 20%	16V 50V 16V 16V	C236 C237 C238 C239 C240	1-123-318-00 1-102-121-00 1-123-381-00 1-102-752-61 1-121-257-00	ELECT CERAMIC ELECT CERAMIC ELECT	33MF 0.0022MF 2.2MF 30PF 4.7MF	20% 10% 20% 5%	16V 50V 50V 50V 16V
C140 1-101-001-00 C141 1-101-002-00 C142 1-106-190-00 C143 1-123-309-00 C144 1-101-004-00	CERAMIC CERAMIC MYLAR ELECT CERAMIC	0.001MF 0.0022MF 0.0056MF 330MF 0.01MF	10% 20%	50V 50V 100V 10V 50V	C241 C243 C244 C244 C245 C246	1-102-973-00 1-102-816-00 1-123-318-00 1-123-333-00 1-123-318-00	CERAMIC CERAMIC ELECT ELECT ELECT	100PF 120PF 33MF 100MF 33MF	5% 5% 20% 20% 20%	50V 50V 16V 16V
C145 1-101-004-00 C146 1-123-333-00 C147 1-101-001-00 C149 1-101-004-00 C150 1-101-004-00	CERAMIC ELECT CERAMIC CERAMIC CERAMIC	0.01MF 100MF 0.001MF 0.01MF 0.01MF	20%	50V 16V 50V 50V 50V	C247 C248 C249 C250 C251	1-123-333-00 1-102-074-00 1-123-380-00 1-123-318-00 1-123-333-00	ELECT CERAMIC ELECT ELECT ELECT	100MF 0.001MF 1MF 33MF 100MF	20% 10% 20% 20% 20%	16V 50V 50V 16V 16V
C151 1-119-135-00 C152 1-123-356-00 C153 1-123-333-00 C154 1-123-356-00 C155 1-161-323-00	ELECT ELECT ELECT ELECT CERAMIC	220MF 10MF 100MF 10MF 0.001MF	20% 20% 20% 10%	16V 16V 16V 16V 50V	C252 C301 C302 C303 C304	1-123-306-00 1-123-356-00 1-102-965-00 1-101-884-00 1-123-380-00	ELECT ELECT CERAMIC CERAMIC ELECT	47MF 10MF 39PF 56PF 1MF	20% 20% 5% 5% 20%	6.3V 16V 50V 50V 50V
C156 1-123-356-00 C157 1-123-380-00 C158 1-106-180-00 C159 1-102-824-00 C201 1-102-121-00	ELECT ELECT MYLAR CERAMIC CERAMIC	10MF 1MF 0.0022MF 470PF 0.0022MF	20% 20% 10% 5% 10%	16V 50V 100V 50V	C305 C306 C307 C308 C309	1-123-380-00 1-123-356-00 1-123-369-00 1-102-129-00 1-102-973-00	ELECT ELECT ELECT CERAMIC CERAMIC	1MF 10MF 4.7MF 0.01MF 100PF	20% 20% 20% 10% 5%	50V 25V 25V 50V 50V
C202 1-102-128-00 C203 1-102-851-00 C204 1-102-525-00 C205 1-123-318-00 C206 1-123-318-00	CERAMIC CERAMIC CERAMIC ELECT ELECT	0.0082MF 15PF 68PF 33MF 33MF	10% 5% 5% 20% 20%	50V 50V 50V 16V	C310 C311 C312 C313 C314	1-123-330-00 1-161-047-00 1-123-447-00 1-123-447-00 1-101-004-00	ELECT CERAMIC ELECT ELECT CERAMIC	22MF 0.0047MF 0.22MF 0.22MF 0.01MF	20% 10% 20% 20%	16V 50V 50V 50V 50V
C207 1-101-884-00 C208 1-161-059-00 C209 1-102-824-00 C211 1-102-121-00 C212 1-101-004-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	56PF 0.047MF 470PF 0.0022MF 0.01MF	5% 10% 5% 10%	50V 25V 50V 50V 50V	C315 C316 C317 C318 C319	1-123-356-00 1-101-888-00 1-102-865-00 1-102-074-00 1-123-379-00	ELECT CERAMIC CERAMIC CERAMIC ELECT	10MF 68PF 8PF 0.001MF 0.47MF	20% 5% 0.5PF 10% 20%	16V 50V 50V 50V 50V
C213 1-161-059-00 C214 1-102-121-00 C215 1-102-121-00 C216 1-102-525-00 C217 1-123-586-00	CERAMIC CERAMIC CERAMIC CERAMIC ELECT	0.047MF 0.0022MF 0.0022MF 68PF 0.1MF	10% 10% 10% 5% 20%	25 V 50 V 50 V 50 V 50 V	C320   C321   C322   C323   C324	1-121-806-00 1-123-379-00 1-123-286-00 1-123-379-00 1-123-357-00	ELECT ELECT ELECT ELECT ELECT	10MF 0.47MF 0.33MF 0.47MF 22MF	20% 20% 20% 20%	16V 50V 50V 50V 50V
C218 1-123-586-00 C219 1-102-634-11 C220 1-102-637-00	ELECT CERAMIC CERAMIC	0.1MF 8PF 12PF	20% 0.5PF 5%	50V 50V 50V	C325 C326 C328	1-123-380-00 1-102-953-00 1-161-264-00	ELECT CERAMIC CERAMIC	1MF 18PF 27PF	20% 5% 5%	50V 50V 50V

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Remark	Ref.No.	Part No.	Description			Remark	Ref.No.	. Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description
	C124 C125 C126	1-123-356-00 1-123-380-00 1-123-380-00	ELECT ELECT	10MF 1MF 1MF	20% 20% 20%	50V 50V 50V	C222	1-161-013-00 1-123-379-00 1-123-356-00	ELECT ELECT	0.01MF 0.47MF 10MF	10% 20% 20%	25V 50V 16V 50V	C 330 C 331 C 332 C 333	1-123-333-00 1-101-888-00 1-102-965-00 1-123-323-00	CERAMIC CERAMIC	100MF 68PF 39PF 470MF	20% 5% 5% 20%	16V 50V 50V 16V	D203 D204 D205	8-719-102-91 8-719-103-06 8-719-911-19	DIODE RD10E-N DIODE RD13E-N DIODE 1SS119
•	C127 C128	1-123-380-00 1-123-380-00	ELECT	1MF 1MF	20% 20%	50V 50V	C226   C228 	1-102-121-00 1-123-330-00		0.0022MF 22MF	10% 20%	16V	C 334	1-123-380-00	ELECT	1MF	20%	50 <b>v</b>	D251 D402	8-719-102-71 8-719-911-19	DIODE RD5.6E- DIODE 1SS119
******	C129 C130 C131 C132	1-119-129-00 1-123-324-00 1-123-318-00 1-101-003-00	ELECT ELECT	100MF 1000MF 33MF 0.0047MF	20% 20%	16V 16V 16V 50V	C231 C232 C233 C234	1-102-121-00 1-102-959-00 1-102-959-00 1-123-379-00	CERAMIC CERAMIC	0.0022MF 22PF 22PF 0.47MF	10% 5% 5% 20%	50V 50V 50V 50V	C 338 C339 C340 C391	1-101-888-00 1-102-942-00 1-123-324-00 1-106-196-00	CERAMIC ELECT MYLAR	68PF 5PF 1000MF 0.01MF	5% 0.5PF 20% 10%	50V 50V 16V 100V	D404 D405	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119
	C133 C134	1-101-003-00	CERAMIC	0.0047MF	20%	50V 16V	C235	1-123-379-00	ELECT	0.47MF 33MF	20%	50V 16V	C 392 C 393 C 401	1-102-971-00 1-123-356-00 1-123-356-00	ELECT	82PF 10MF 10MF	5% 20% 20%	50V 16V 16V		8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISS119 DIODE ISS119
	C135 C137 C138	1-101-003-00 1-123-356-00 1-123-356-00	CERAMIC ELECT ELECT	0.0047MF 10MF 10MF	20% 20%	50V 16V 16V	C237 C238 C239	1-102-121-00 1-123-381-00 1-102-752-61	CERAMIC ELECT CERAMIC	0.0022MF 2.2MF 30PF	10% 20% 5%	50V 50V 50V	C 402 C 403 C 404	1-123-356-00 1-123-356-00 1-123-324-00	ELECT	10MF 10MF 1000MF	20% 20% 20%	16V 16V 16V	D409 D411	8-719-911-19 8-719-911-19	
	C139 C140	1-123-356-00 1-101-001-00		10MF 0.001MF	20%	16V 50V	C240     C241	1-121-257-00		4.7MF 100PF	5%	16V 50V	C 405 C 406	1-101-003-00 1-123-379-00	CERAMIC	0.0047MF 0.47MF	20%	50V 50V	Di 201		AY LINE
	C141 C142 C143 C144	1-101-002-00 1-106-190-00 1-123-309-00 1-101-004-00	CERAMIC MYLAR ELECT	0.0022MF 0.0056MF 330MF 0.01MF	10 <b>%</b> 20 <b>%</b>	50V 100V 10V 50V	C243 C244 C245 C246	1-102-816-00 1-123-318-00 1-123-333-00 1-123-318-00	ELECT ELECT	120PF 33MF 100MF 33MF	5% 20% 20% 20%	50V 16V 16V 16V	C407 C408 C410	1-123-379-00 1-123-379-00 1-101-004-00	ELECT CERAMIC	0.47MF 0.47MF 0.01MF	20% 20%	50V 50V 50V			DELAY LINE, 10 DELAY LINE, Y
	C145 C146	1-101-004-00 1-123-333-00		0.01MF 100MF	20%	50V 16V	   C247   C248	1-123-333-00 1-102-074-00		100MF 0.001MF	20% 10%	16V 50V	C411 C412	1-123-356-00 1-123-369-00		10MF 4.7MF	20% 20%	50V 50V	IC102	8-759-103-07 8-759-800-65	IC LA7910
	C147 C149 C150	1-101-001-00 1-101-004-00 1-101-004-00	CERAMIC CERAMIC	0.001MF 0.01MF 0.01MF	20%	50V 50V 50V	C249 C250 C251	1-123-380-00 1-123-318-00 1-123-333-00	ELECT ELECT	1MF 33MF 100MF	20% 20% 20%	50V 16V 16V	C413 C417 C418 C419	1-106-184-00 1-123-379-00 1-101-003-00 1-123-332-00	ELECT CERAMIC	0.0033MF 0.47MF 0.0047MF 47MF	10% 20% 20%	100V 50V 50V 16V	IC104	8-759-912-82 8-759-909-50 8-759-140-71	
	C151 C152	1-119-135-00 1-123-356-00		220MF 10MF	20%	16V 16V	C252	1-123-306-00 1-123-356-00		47MF 10MF	20% 20%	6.3V 16V	C421	1-123-380-00	ELECT	1MF	20%	50V	IC107	8-752-320-11 8-759-102-28	IC UPD6326C
	C153 C154 C155	1-123-333-00 1-123-356-00 1-161-323-00	ELECT ELECT	100MF 10MF 0.001MF	20% 20% 10%	16V 16V 50V	C302 C303 C304	1-102-965-00 1-101-884-00 1-123-380-00	CERAMIC	39PF 56PF 1MF	5% 5% 20%	50V 50V 50V	C 423 C 424 C 426 C 427	1-102-820-00 1-123-356-00 1-123-356-00 1-101-001-00	ELECT ELECT	330PF 10MF 10MF 0.001MF	5% 20% 20%	50V 16V 16V 50V	IC 202	8-752-001-41 8-752-013-90 8-759-108-05	IC CX 20139
	C156 C157	1-123-356-00 1-123-380-00	ELECT	10MF 1MF 0.0022MF	20% 20% 10%	16V 50V 100V	C305 C306 C307	1-123-380-00 1-123-356-00 1-123-369-00	ELECT	1MF 10MF 4.7MF	20% 20% 20%	50V 25V 25V		1-101-884-00 FIL	CERAMIC	56PF	5%	50 <b>V</b>	IC 302	8-758-480-00 8-759-913-11 8-752-010-00	IC CX20125
DV DV DV	C158 C159 C201	1-106-180-00 1-102-824-00 1-102-121-00	CERAMIC	470PF 0.0022MF	5% 10%	50V 50V	C308 C309	1-102-129-00 1-102-973-00	CERAMIC	0.01MF 100PF	10% 5%	50V 50V		1-409-332-00 1-527-943-00	CERAMIC TRAP					8-759-040-53 8-759-145-58	IC MC14053BCP IC UPC4558C
DV DV	C 202 C 203	1-102-128-00 1-102-851-00	CERAMIC CERAMIC	0.0082MF 15PF	10% 5%	50V 50V	C310 C311	1-123-330-00 1-161-047-00		22MF 0.0047MF	20% 10%	16V 50V	0, 202		MMER				. 101	<u>COI</u>	<del></del>
6 <b>V</b>	C 204 C 205 C 206	1-102-525-00 1-123-318-00 1-123-318-00	CERAMIC ELECT	68PF 33MF 33MF	5% 20% 20%	50V 16V 16V	C312 C313 C314	1-123-447-00 1-123-447-00 1-101-004-00	ELECT	0.22MF 0.22MF 0.01MF	20% 20%	50V 50V 50V	CV316	1-141-147-XX	CAP, TRIMMER	1			L101 L102 L103	1-404-538-11 1-408-398-00	MICRO INDUCTO
OV OV		1-123-318-00		56PF	5%	50V	İ	1-123-356-00	ELECT	10MF	20%	16V		DIO					L104 L105	1-408-403-00 1-408-403-00	MICRO INDUCTO
OV OV OV OV OV OV OV OV OV OV OV OV OV O	C 208 C 209 C 211 C 212	1-161-059-00 1-102-824-00 1-102-121-00 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.047MF 470PF 0.0022MF 0.01MF	10% 5% 10%	25 V 50 V 50 V 50 V	C316 C317 C318 C319	1-101-888-00 1-102-865-00 1-102-074-00 1-123-379-00	CERAMIC CERAMIC	68PF 8PF 0.001MF 0.47MF	5% 0.5PF 10% 20%	50V 50V 50V 50V	D101 D102 D103 D104 D108	8-719-911-19 8-759-300-42 8-719-102-60 8-719-102-60 8-719-911-19	IC HZT33-02 DIODE RD3.9E DIODE RD3.9E	-N2 -N2			L108 L109 L110	1-410-016-11 1-410-016-11 1-408-429-00	MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO
)A )A	C213 C214 C215	1-161-059-00 1-102-121-00 1-102-121-00	CERAMIC CERAMIC	0.047MF 0.0022MF 0.0022MF	10% 10% 10%	25V 50V 50V	C320   C321   C322	1-121-806-00 1-123-379-00 1-123-286-00	ELECT ELECT	10MF 0.47MF 0.33MF	20% 20%	16V 50V 50V	D109 D110	8-719-911-19 8-719-911-19	DIODE 1SS119	) )			L111 L112 L113	1-408-421-00	MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO
)0A )A )A	C216 C217	1-102-525-00 1-123-586-00		68PF 0.1MF	5% 20%	50V 50V	C323   C324 	1-123-379-00 1-123-357-00		0.47MF 22MF	20% 20%	50V 50V	D111 D112	8-719-102-65 8-719-101-04	DIODE RD33E-	-B2			L114 L201	1-407-178-XX 1-408-408-00	MICRO INDUCTO

f.No.	Part No.	Description			Remark	Ref.No.	Part No.	Descri	iption	
330 331 332	1-123-333-00 1-101-888-00 1-102-965-00	CERAMIC	100MF 68PF 39PF	20% 5% 5%	16V 50V 50V	D203 D204	8-719-102-91 8-719-103-06		RD10E-N3 RD13E-N2	
333	1-123-323-00		470MF 1MF	20% 20%	16V 50V	D205 D251 D402	8-719-911-19 8-719-102-71 8-719-911-19	DIODE	RD5.6E-N2 1SS119	2
338 339 340	1-101-888-00 1-102-942-00 1-123-324-00	CERAMIC	68PF 5PF 1000MF	5% 0.5PF 20%	50V 50V 16V	D403 D404	8-719-911-19 8-719-911-19			
391 392 393 401	1-106-196-00 1-102-971-00 1-123-356-00 1-123-356-00	MYLAR CERAMIC ELECT	0.01MF 82PF 10MF 10MF	10% 5% 20% 20%	100V 50V 16V 16V	D405 D406 D407 D408 D409	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DI ODE DI ODE	ISS119 1SS119	
402		ELECT	10MF 10MF	20% 20%	16V 16V	D411	8-719-911-19			
404 405 406	1-123-324-00 1-101-003-00 1-123-379-00	CERAMIC	1000MF 0.0047MF 0.47MF	20% 20%	16V 50V 50V		DEL	AY LINE	_	
407 408	1-123-379-00 1-123-379-00	ELECT ELECT	0.47MF 0.47MF	20%	50 <b>V</b> 50 <b>V</b>		1-415-356-11 1-415-388-11			
410	1-101-004-00 1-123-356-00	ELECT	0.01MF 10MF	20%	50V 50V	10101	<u>IC</u> 8-759-103-07	זר רצי	26_025	
412 413 417	1-123-369-00 1-106-184-00 1-123-379-00	MYLAR ELECT	4.7MF 0.0033MF 0.47MF	20% 10% 20%	100V 50V	IC102 IC103 IC104	8-759-800-65 8-759-912-82 8-759-909-50 8-759-140-71	IC LA7 IC CX5 IC CX7	'910 330-507N '958	
418 419 421	1-101-003-00 1-123-332-00 1-123-380-00	ELECT	0.0047MF 47MF 1MF	20% 20%	50V 16V 50V	IC106	8-752-320-11 8-759-102-28	IC CXK	1001P	
423 424 426	1-123-356-00	ELECT ELECT	330PF 10MF 10MF	5% 20% 20%	50V 16V 16V 50V	IC 202	8-752-001-41 8-752-013-90 8-759-108-05	IC CX2	20139	
427 428	1-101-001-00 1-101-884-00		0.001MF 56PF	5%	50V 50V		8-758-480-00 8-759-913-11			
F201	FIL <sup>-</sup> 1-409-332-00		(4.5MHZ)			IC402	8-752-010-00 8-759-040-53 8-759-145-58	IC MC1	.4053BCP	
F202	1-527-943-00		MIC				<u>C01</u>	<u>L</u>		
. V 31 E	1-141-147-XX	MMER CAP TRIMMER				L101 L102	1-407-717-00 1-404-538-11	MICRO COIL	INDUCTOR	1MMH
,1310	<u>DIO</u>	•				L103 L104 L105	1-408-398-00 1-408-403-00 1-408-403-00	MICRO	INDUCTOR	3.3UH
0101 0102 0103 0104 0108	8-719-911-19 8-759-300-42 8-719-102-60 8-719-102-60 8-719-911-19	IC HZT33-02 DIODE RD3.9E DIODE RD3.9E	-N2 -N2			L107 L108 L109 L110 L111	1-410-016-11 1-410-016-11 1-410-016-11 1-408-429-00 1-408-450-11	MICRO MICRO MICRO	INDUCTOR INDUCTOR INDUCTOR	3.9UH 3.9UH 470UH
0109 0110 0111 0112	8-719-911-19 8-719-911-19 8-719-102-65 8-719-101-04	DIODE 1SS119 DIODE 1SS119 DIODE RD4.7E DIODE RD33E-	-N2			L112 L113 L114 L201	1-408-421-00 1-407-179-00 1-407-178-XX 1-408-408-00	MICRO MICRO MICRO MICRO	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	100UH 1.2UH 1UH 8.2UH
0117 <b>0119</b> 0202	8-719-102-70 8-719-911-19 8-719-911-19	DIODE RD5.6E DIODE 1SS119 DIODE 1SS119				L202 L203 L204	1-408-709-00 1-410-073-11 1-408-408-00	MICRO MICRO	INDUCTOR INDUCTOR INDUCTOR	0.22UH 8.2UH
						L 205 L 206 L 207 L 208	1-408-445-11 1-408-412-00 1-408-402-00 1-408-409-00	MICRO MICRO	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	18UH 2.7UH

Remark

2A 30A 30A 30A 30A

1-123-586-00 ELECT 1-102-634-11 CERAMIC 1-102-637-00 CERAMIC

C218 C219 C220

1MF 18PF 27PF

20% 5% 5%

50V 50V 50V

20% 50V 0.5PF 50V 5% 50V

0.1MF 8PF 12PF



										4114 Million 1714 April
Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	<u>!</u>			Remark
L 301 L 302 L 303 L 304 L 305	1-408-416-00 1-404-540-11 1-408-411-00 1-408-398-00	MICRO INDUCTOR 15UH MICRO INDUCTOR 1.2UH		Q391 Q392 Q393 Q394 Q403 Q404	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC 2458 2SC 2458 2SC 2458 2SA 1048GR			
L306 L307 L308 L309 L310 L401	1-408-398-00 1-408-163-00 1-408-456-11 1-408-409-00	MICRO INDUCTOR 1.2UH MICRO INDUCTOR 1.2UH MICRO INDUCTOR 5.6MMH MICRO INDUCTOR 150UH MICRO INDUCTOR 10UH MICRO INDUCTOR 10UH		Q405 Q406 Q407 Q408 Q409	8-729-204-83 8-729-204-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SA1048GR 2SC2458			V
		NSISTOR		0410	8-729-245-83 8-729-204-83	TRANSISTOR	2SC2458			
Q101 Q102 Q103 Q104	8-729-204-83 8-729-245-83 8-729-245-83 8-729-204-83	TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		Q411 Q412 Q413 Q414	8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SA1048GR 2SA1048GR			- 1 - 1 - 1
Q105 Q106 Q107	8-729-245-83 8-729-245-83 8-729-246-83	TRANSISTOR 2SC2458  TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SA1048GR	7	Q415 Q416 Q417 Q418 Q419	8-729-245-83 8-729-204-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SC2458 2SC2458			
Q108 Q109 Q110	8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458		Q420 Q421 Q422	8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SA1048GR 2SA1048GR			
Q113 Q114 Q115 Q116	8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR 2SA1048GR TRANSISTOR 2SA1048GR TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458	<i>s</i> •	Q423 Q424 Q426 Q427	8-729-204-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR	2SA1048GR 2SC2458			
Q118 Q123	8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		Q428 Q429 Q430	8-729-245-83 8-729-204-83 8-729-204-83	TRANSISTOR TRANSISTOR	2SC 2458 2SA 1048GR			
Q124 Q125 Q126 Q127	8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		Q431 Q432	8-729-245-83 8-729-204-83					,
Q128 Q201	8-729-245-83 8-729-266-93	TRANSISTOR 2SC2458 TRANSISTOR 2SC2669		R001	1-247-127-00		680	5%	1/4W	
Q202 Q204 Q205 Q206	8-729-245-83 8-729-204-83	TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		R002 R003 R004 R005	1-247-117-00 1-247-117-00 1-247-843-00 1-247-843-00	CARBON CARBON CARBON	270 270 3.3K 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W	
Q207 Q208 Q209 Q251 Q301	8-729-288-02 8-729-201-78 8-729-288-02 8-729-245-83	TRANSISTOR 2SD880 TRANSISTOR 2SD1406 TRANSISTOR 2SD880 TRANSISTOR 2SC2458		R006 R007 R008 R009 R010	1-247-163-00 1-247-143-00 1-247-143-00 1-247-843-00 1-247-143-00	CARBON CARBON CARBON	22K 3.3K 3.3K 3.3K 3.3K	5% 5%	1/4W 1/4W 1/4W 1/6W 1/4W	
Q302 Q303 Q304 Q305 Q306	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		R012 R014 R015 R016 R020	1-247-115-00 1-247-135-00 1-247-847-00 1-247-155-00 1-249-421-11	CARBON CARBON	1.5K 4.7K	5% 5%	1/4W 1/4W 1/6W 1/4W 1/6W	,
Q307 Q308 Q309 Q310 Q311	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2SC2458  TRANSISTOR 2SC2458  TRANSISTOR 2SC2458  TRANSISTOR 2SC2458		R021 R022 R023 R025 R026	1-249-421-11 1-249-421-11 1-249-421-11 1-247-131-00 1-247-855-00	CARBON CARBON CARBON		5%	1/6W 1/6W 1/6W 1/4W 1/6W	
Q313	8-729-204-83			R027 R028	1-247-867-00 1-247-131-00			5% 5%	1/6W 1/6W	

#### V-25XBR vi-724/APM-X3U



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Ref.No.	Part No.	Description	1_			Remark	Ref.No.	Part No.	Description				Remark
R100 R106 R107 R108 R109 R110	1-247-895-00 1-247-847-00 1-247-717-11 1-247-717-11 1-247-855-00 1-247-855-00	CARBON CARBON CARBON CARBON CARBON CARBON	470K 4.7K 2.2K 2.2K 10K 10K	5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/4W 1/6W 1/6W		R162 R163 R164 R165 R166	1-247-131-00 1-247-131-00 1-249-421-11 1-249-421-11 1-246-411-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 2.2K 2.2K 2.7	5% 5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/4W	
R111 R112 R113 R114 R115	1-247-823-00 1-247-885-00 1-247-855-00 1-247-717-11 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	470 180K 10K 2.2K 330	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W		R167 R168 R169 R170 R171	1-206-696-00 1-247-717-11 1-247-155-00 1-247-155-00 1-247-831-00	METAL ÖXIDE CARBON CARBON CARBON CARBON	22K 2.2K 10K 10K 1K	5% 5% 5% 5%	2W 1/4W 1/4W 1/4W 1/6W	F .
R118 R119 R120 R121 R122	1-247-131-00 1-247-831-00 1-247-871-00 1-247-871-00 1-247-163-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 47K 47K 22K	5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/4W		R172 R173 R174 R175 R176	1-247-179-00 1-247-179-00 1-247-855-00 1-247-155-00 1-247-891-00	CARBON CARBON CARBON CARBON CARBON	100K 100K 10K 10K 330K	5% 5% 5% 5%	1/4W 1/4W 1/6W 1/4W 1/6W	
R123 R124 R125 R126 R127	1-247-717-11 1-247-849-00 1-247-167-00 1-247-851-00 1-247-835-00	CARBON CARBON CARBON CARBON CARBON	2.2K 5.6K 33K 6.8K 1.5K	5% 5% 5% 5%	1/4W 1/6W 1/4W 1/6W 1/6W	neig.	R177 R178 R179 R180 R181	1-247-855-00 1-247-717-11 1-247-717-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	10K 2.2K 2.2K 2.2K 2.2K	5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R128 R129 R130 R131 R132	1-247-857-00 1-247-855-00 1-247-167-00 1-247-887-00 1-247-153-00	CARBON CARBON CARBON CARBON CARBON	12K 10K 33K 220K 8.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/6W 1/4W		R182 R183 R185 R186 R187	1-249-421-11 1-247-877-00 1-247-855-00 1-247-855-00 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	2.2K 82K 10K 10K 2.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	**************************************
R133 R134 R135 R136 R137	1-247-873-00 1-247-895-00 1-247-895-00 1-247-889-00 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	56K 470K 470K 270K 2.2K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R188 R189 R190 R191 R192	1-249-421-11 1-249-421-11 1-247-855-00 1-247-843-00 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	2.2K 2.2K 10K 3.3K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R138 R139 R140 R142 R143	1-247-125-00 1-247-717-11 1-247-717-11 1-247-107-00 1-247-717-11		560 1K 2.2K 2.2K 100 2.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R193 R194 R196 R197 R198	1-244-877-51 1-247-871-00 1-247-871-00 1-247-871-00 1-247-863-00	CARBON CARBON CARBON CARBON CARBON	1.5K 47K 47K 47K 22K	5% 5% 5% 5% 5%	1/2W 1/6W 1/6W 1/6W 1/6W	
R144 R145 R146 R147 R148	1-247-855-00 1-247-879-00 1-247-123-00 1-247-123-00 1-247-123-00	CARBON CARBON CARBON CARBON CARBON	10K 100K 470 470 470	5% 5% 5% 5%	1/6W 1/6W 1/4W 1/4W 1/4W		R199 R201 R202 R203 R204	1-247-855-00 1-247-837-00 1-247-857-00 1-247-855-00 1-215-457-00	CARBON CARBON CARBON CARBON METAL	10K 1.8K 12K 10K 33K	5% 5% 5% 5% 1%	1/6W 1/6W 1/6W 1/6W 1/6W	
R149 R150 R151 R152 R153	1-247-143-00 1-247-143-00 1-247-115-00 1-247-871-00 1-247-855-00	CARBON CARBON CARBON CARBON CARBON	3.3K 3.3K 220 47K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/6W 1/6W		R205 R206 R208 R209 R211	1-215-457-00 1-247-863-00 1-247-883-00 1-247-831-00	METAL CARBON CARBON CARBON CARBON	33K 22K 150K 150K 1K	1% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R154 R155 R156 R157 R158	1-247-871-00 1-247-871-00 1-247-887-00 1-247-863-00 1-247-871-00	CARBON CARBON CARBON CARBON CARBON	47K 47K 220K 22K 47K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R215 R216 R218 R219 R220	1-247-883-00 1-247-815-00 1-247-845-00 1-247-817-00 1-247-801-00	CARBON CARBON CARBON CARBON	150K 220 3.9K 270 56	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
R159 R160 R161	1-247-889-00 1-247-879-00 1-247-131-00	CARBON CARBON CARBON	270K 100K 1K	5% 5% 5%	1/6W 1/6W 1/4W	ar.	R221 R223 R224	1-247-822-00 1-247-821-00 1-247-830-00	CARBON CARBON CARBON	430 390 910	5% 5% 5%	1/6W 1/6W 1/6W	

#### KV-25XBF RM-724/APM-X3



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Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R 225 R 226 R 227 R 228 R 229	1-247-827-00 1-247-807-00 1-247-827-00 1-247-833-00 1-247-803-00	CARBON CARBON CARBON CARBON CARBON	680 100 680 1.2K 68	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R331 R332 R333 R334 R335	1-247-807-00 1-247-821-00 1-247-863-00 1-247-829-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	100 390 22K 820 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R 230 R 231 R 232 R 234 R 235	1-247-843-00 1-247-846-00 1-247-851-00 1-249-421-11 1-247-821-00	CARBON CARBON CARBON CARBON CARBON	3.3K 4.3K 6.8K 2.2K 390	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R336 R337 R339 R340 R341	1-247-897-00 1-247-895-00 1-247-819-00 1-247-871-00 1-247-857-00	CARBON CARBON CARBON CARBON CARBON	560K 470K 330 47K 12K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	·
R 236 R 237 R 238 R 239 R 241	1-247-107-00 1-247-795-00 1-247-847-00 1-247-819-00 1-212-367-00	CARBON CARBON CARBON CARBON METAL OXIDE	100 33 4.7K 330 3.9	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	F .	R342 R345 R346 R347 R348	1-247-855-00 1-247-155-00 1-247-115-00 1-249-421-11 1-247-815-00	CARBON CARBON CARBON CARBON CARBON	10K 10K 220 2.2K 220	5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R242 R243 R244 R245 R250	1-206-495-00 1-247-821-00 1-247-115-00 1-247-825-00 1-206-453-00	METAL OXIDE CARBON CARBON CARBON METAL OXIDE	2.2 390 220 560 3.9	5% 5% 5% 5% 5%	3W 1/6W 1/4W 1/6W 2W	F	R349 R350 R351 R352 R353	1-247-871-00 1-247-815-00 1-247-829-00 1-247-155-00 1-247-863-00	CARBON CARBON CARBON CARBON CARBON	47K 220 820 10K 22K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R 251 R 256 R 300 R 301 R 302	1-247-119-00 1-247-025-00 1-247-807-00 1-247-867-00 1-247-865-00	CARBON CARBON CARBON CARBON CARBON	330 3.9 100 33K 27K	5% 5% 5% 5% 5%	1/4W 1/8W 1/6W 1/6W 1/6W	F	R354 R355 R356 R357 R359	1-246-537-00 1-247-815-00 1-246-517-25 1-247-903-00 1-247-827-00	CARBON CARBON CARBON CARBON CARBON	470K 220 68K 1M 680	5% 5% 5% 5% 5%	1/4W 1/6W 1/4W 1/6W 1/6W	
R 303 R 304 R 305 R 306 R 307	1-247-833-00 1-247-823-00 1-247-833-00 1-247-835-00 1-247-827-00	CARBON CARBON CARBON CARBON CARBON	1.2K 470 1.2K 1.5K 680	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R360 R361 R362 R363 R364	1-247-827-00 1-247-823-00 1-247-833-00 1-247-819-00 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	680 470 1.2K 330 1.2K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R 308 R 309 R 310 R 311 R 312	1-247-827-00 1-247-827-00 1-247-827-00 1-247-833-00 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	680 680 680 1.2K 1.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R365 R366 R367 R377 R380	1-247-837-00 1-247-841-00 1-247-847-00 1-247-123-00 1-247-867-00	CARBON CARBON CARBON CARBON CARBON	1.8K 2.7K 4.7K 470 33K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W	
R 313 R 314 R 315 R 316 R 317	1-247-835-00 1-247-835-00 1-247-833-00 1-247-833-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	1.5K 1.5K 1.2K 1.2K 1.K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R381 R382 R391 R392 R393 R394	1-247-867-00 1-247-855-00 1-247-865-00 1-247-845-00 1-247-815-00 1-247-819-00	CARBON CARBON CARBON CARBON CARBON CARBON	33K 10K 27K 3.9K 220 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W	
R318 R319 R320 R321 R322	1-247-841-00 1-247-841-00 1-247-841-00 1-247-899-00 1-247-865-00	CARBON CARBON CARBON CARBON CARBON	2.7K 2.7K 2.7K 680K 27K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R395 R396 R397 R398 R401	1-247-835-00 1-247-831-00 1-247-855-00 1-247-855-00 1-247-115-00	CARBON CARBON CARBON CARBON CARBON	1.5K 1K 10K 10K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/4W	
R 323 R 324 R 325 R 326 R 327	1-247-145-00 1-247-119-00 1-247-863-00 1-247-843-00 1-247-845-00	CARBON CARBON CARBON CARBON CARBON	3.9K 330 22K 3.3K 3.9K	5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/6W		R402 R403 R404 R405 R406	1-247-115-00 1-247-115-00 1-247-849-00 1-247-839-00 1-247-833-00	CARBON CARBON CARBON CARBON CARBON	220 220 5.6K 2.2K 1.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/6W	
R 328 R 329 R 330	1-247-829-00 1-249-421-11 1-247-831-00	CARBON CARBON CARBON	820 2.2K 1K	5% 5% 5%	1/6W 1/6W 1/6W		R408 R410 R411	1-247-839-00 1-215-406-00 1-214-717-00	CARBON METAL METAL	2.2K 240 330	5% 1% 1%	1/6W 1/6W 1/4W	

#### V-25XBR 1-724/APM-X3U



Ref.   Part No.   Description	للسا													
1-247-179-00   CARBON   100K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R479   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R478   1-247-131-00   CARBON   1K   5X   1/4M   R481   1-247-131-00   CARBON   1K   5X   1/4M   R481   1-247-131-00   CARBON   100K   5X   1/4M   R481   1-247-131-00   CARBON   100K   5X   1/4M   R481   1-247-131-00   CARBON   100K   5X   1/4M   R482   1-247-131-00   CARBON   3.3K   5X   1/6M   R481   1-247-131-00   CARBON   2K   5X   1/4M   R485   1-247-131-00   CARBON   2K   5X   1/4M   R485   1-247-131-10   CAR	Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description	<u>n</u>			Remark
1-227-047-00   CARBON   4.7K   5%   1/6W   R483   1-247-051-00   CARBON   3.7K   5%   1/6W   R422   1-247-163-00   CARBON   22K   5%   1/6W   R486   1-247-051-00   CARBON   27K   5%   1/6W   R486   1-247-051-00   CARBON   27K   5%   1/6W   R486   1-247-051-00   CARBON   27K   5%   1/6W   R486   1-247-171-171   CARBON   27K   5%   1/6W   R486   1-247-051-00   CARBON   27K	R414 R416 R417	1-247-179-00 1-246-523-00 1-247-163-00	CARBON CARBON CARBON	100K 120K 22K	5% 5% 5%	1/4W 1/4W 1/4W		R478 R479 R480	1-247-131-00 1-247-147-00 1-215-406-00	CARBON CARBON METAL	1K 4.7K 240	5% 5% 1%	1/4W 1/4W 1/6W	,
R426   1-247-137-00   CARBON   2.2K   5%   1/6W   R493   1-247-863-00   CARBON   22K   5%   1/6W   R426   1-247-137-00   CARBON   22K   5%   1/4W   R426   1-247-883-00   CARBON   10K   5%   1/6W   R427   1-214-753-00   METAL   10K   1%   1/4W   R428   1-247-839-00   CARBON   10K   5%   1/4W   R428   1-247-115-00   CARBON   20   5%   1/4W   R430   1-228-723-00   RES, ADJ, CERAMIC CARBON   4.7K   R431   1-214-753-00   METAL   10K   1%   1/4W   R430   1-228-723-00   RES, ADJ, CERAMIC CARBON   1/4W   R430   1-228-723-00   RES, ADJ, CERAMIC CARBON   1/4W   R430   1-228-713-00   RES, ADJ, CERAMIC CARBON   1/4W   R430   1-228-724-00   RES, ADJ, CERAMIC CARBON   1/4W   R430   1-228-724-00   RES, ADJ, CERAMIC CARBON   1/4W   R430   1-247-183-00   CARBON   3.3K   5%   1/6W   R440   1-247-843-00   CARBON   3.3K   5%   1/6W   R440   1-247-843-00   CARBON   3.3K   5%   1/6W   R440   1-247-843-00   CARBON   3.3K   5%   1/6W   R440   1-247-833-00   CARBON   1.3K   5%   1/6W   R440   1-228-729-00   CARBON   1.2K   5%   1/6W   R441   1-247-833-00   CARBON   1.2K   5%   1/6W   R441   1-247-833-00   CARBON   1.2K   5%   1/6W   R441   1-247-839-00   CARBON   10K   5%   1/6W   R441   1-247-899-00   CARBON   10K   5%   1/6W   R451   1-247-899-00   CARBON   10K   5%   1/6W   R451   1-247-899-00   CARBON   10K   5%   1/6W   R451   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K   5%   1/6W   R461   1-247-899-00   CARBON   10K	R420 R421 R422	1-247-847-00 1-214-717-00 1-247-163-00	CARBON METAL CARBON	4.7K 330 22K	5% 1% 5%	1/6W 1/4W 1/4W		R483 R486 R4878	1-247-843-00 1-247-815-00 1-247-804-00	CARBON CARBON CARBON	3.3K 220 75	5% 5% 5%	1/6W 1/6W 1/6W	*
R249 1-247-13-00 CARBON 820 5% 1/4W R302 1-228-723-00 RES, ADJ, CERAMIC CARBON 1/2 R315 1-247-135-00 METAL 10K 1% 1/4W R303 1-228-720-00 RES, ADJ, CERAMIC CARBON 1/2 R315 1-247-135-00 CARBON 20 5% 1/4W R303 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R437 1-247-145-00 CARBON 3.9K 5% 1/4W R303 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R437 1-247-145-00 METAL 300 1% 1/4W R403 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R440 1-247-893-00 CARBON 3.3K 5% 1/6W R440 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R440 1-247-893-00 CARBON 3.3K 5% 1/6W R440 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R440 1-247-893-00 CARBON 3.3K 5% 1/6W R440 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K R441 1-247-893-00 CARBON 3.3K 5% 1/6W R442 1-247-893-00 CARBON 600 5% 1/6W R442 1-247-893-00 CARBON 10K 5% 1/6W R445 1-247-893-00 CARBON 10K 5% 1/6W R445 1-247-893-00 CARBON 10K 5% 1/6W R445 1-247-893-00 CARBON 10K 5% 1/6W R445 1-247-893-00 CARBON 10K 5% 1/6W R445 1-247-893-00 CARBON 10K 5% 1/6W R455 1-247-893-00 CARBON 10K 5% 1/6W R455 1-247-893-00 CARBON 10K 5% 1/6W R455 1-215-432-00 METAL 3K 1% 1/6W R455 1-215-432-00 METAL 3K 1% 1/6W R455 1-215-432-00 METAL 3K 1% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-893-00 CARBON 10K 5% 1/6W R456 1-247-103-00 CARBON 10K 5% 1/6W R456 1-247	R 425 R 426 R 427	1-249-421-11 1-247-177-00 1-214-753-00	CARBON CARBON METAL	2.2K 82K 10K	5% 5% 1%	1/6W 1/4W 1/4W		R493   	1-247-863-00 <u>VAR</u>	CARBON	22K TOR	5%	1/6W	
R438   1-214-915-00   METAL   120K   1%   1/2W   R401   1-228-724-00   RES, ADJ, CERAMIC CARBON 10K   R439   1-214-717-00   METAL   330   1%   1/4W   R402   1-228-724-00   RES, ADJ, CERAMIC CARBON 10K   R440   1-247-843-00   CARBON   3.3K   5%   1/6W   R440   1-228-719-00   RES, ADJ, CERAMIC CARBON 10K   R440   1-247-843-00   CARBON   3.3K   5%   1/6W   R440   1-228-719-00   RES, ADJ, CERAMIC CARBON 470   R441   1-247-843-00   CARBON   1.3K   5%   1/6W   R440   1-228-719-00   RES, ADJ, CERAMIC CARBON 470   R441   1-247-854-00   CARBON   1.3K   1/6W   R440   1-228-719-00   RES, ADJ, CERAMIC CARBON 470   R441   1-247-853-00   CARBON   1.2K   5%   1/6W   R440   1-228-719-00   RES, ADJ, CERAMIC CARBON 3.3K   R444   1-247-854-00   CARBON   10K   5%   1/6W   R440   1-247-854-00   CARBON   10K   5%   1/6W   R440   1-247-894-00   CARBON   10K   5%   1/6W   R451   1-247-894-00   CARBON   10K   5%   1/6W   R451   1-247-894-00   CARBON   10K   5%   1/6W   R451   1-215-421-00   CARBON   10K   5%   1/6W   R451   1-215-431-00   CARBON   10K   5%   1/6W   R451   1-247-894-00   CARBON   10K   5%   1/6W   R451   1-247-103-00   CARBON   10K   5%   1/6W   R451	R431 R435 R436	1-214-753-00 1-247-115-00 1-247-115-00	METAL CARBON CARBON	10K 220 220	1% 5% 5%	1/4W 1/4W 1/4W		RV 202 RV 301 RV 302	1-228-723-00 1-228-720-00 1-228-719-00	RES, ADJ, ( RES, ADJ, ( RES, ADJ, (	CERAMIC ( CERAMIC ( CERAMIC (	CARBON CARBON CARBON	4.7K 1K 470	
R443 1-247-834-00 CARBON 680 5% 1/6W R445 1-247-833-00 CARBON 1.2K 5% 1/6W R445 1-247-833-00 CARBON 10K 5% 1/6W R450 1-247-855-00 CARBON 10K 5% 1/6W R450 1-247-879-00 CARBON 10K 5% 1/6W R451 1-247-879-00 CARBON 10K 5% 1/6W R452 1-247-879-00 CARBON 10K 5% 1/6W R453 1-247-879-00 CARBON 10K 5% 1/6W R453 1-247-879-00 CARBON 10K 5% 1/6W R453 1-247-879-00 CARBON 10K 5% 1/6W R454 1-247-879-00 CARBON 10K 5% 1/6W R454 1-247-879-00 CARBON 10K 5% 1/6W R455 1-215-433-00 METAL 22K 1% 1/6W 1203 1-404-467-00 COIL, VIF R455 1-215-432-00 METAL 22K 1% 1/6W R459 1-247-859-00 CARBON 39K 5% 1/6W R459 1-247-859-00 CARBON 10K 5% 1/6W R459 1-247-859-00 CARBON 10K 5% 1/6W R459 1-247-859-00 CARBON 10K 5% 1/6W R459 1-247-859-00 CARBON 10K 5% 1/6W R450 1-247-831-00 CARBON 10K 5% 1/6W R450 1-247-831-00 CARBON 10K 5% 1/6W R460 1-247-831-00 CARBON 10K 5% 1/6W R461 1-247-831-00 CARBON 10K 5% 1/6W R463 1-247-107-00 CARBON 10C 5% 1/4W R466 1-247-107-00 CARBON 10C 5% 1/4W R466 1-247-107-00 CARBON 10C 5% 1/4W R466 1-247-103-00 CARBON 10C 5% 1/4W R466 1-247-103-00 CARBON 10C 5% 1/4W R466 1-247-103-00 CARBON 10C 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R469 1-247	R438 R439 R440 R441	1-214-915-00 1-214-717-00 1-247-843-00 1-247-843-00	METAL METAL CARBON CARBON	120K 330 3.3K 3.3K	1% 1% 5% 5%	1/2W 1/4W 1/6W 1/6W		RV 401 RV 402 RV 403	1-228-724-00 1-228-724-00 1-228-723-00	RËS, ADJ, ( RES, ADJ, ( RËS, ADJ, (	CERAMIC ( CERAMIC ( CERAMIC (	CARBON CARBON CARBON	10K 10K 4.7K	
R452 1-247-879-00 CARBON 100K 5% 1/6W R453 1-247-849-00 CARBON 5.6K 5% 1/6W T202 1-404-467-00 COIL, VIF R454 1-247-879-00 CARBON 100K 5% 1/6W T202 1-404-467-00 COIL, VIF R455 1-215-453-00 METAL 22K 1% 1/6W T203 1-404-467-00 COIL, VIF R455 1-215-432-00 METAL 3K 1% 1/6W T203 1-404-467-00 COIL, VIF R457 1-215-421-00 METAL 1K 1% 1/6W T204 1-404-505-00 COIL R457 1-215-421-00 METAL 1K 1% 1/6W R459 1-247-855-00 CARBON 39K 5% 1/6W R461 1-247-855-00 CARBON 10K 5% 1/6W R461 1-247-847-00 CARBON 4.7K 5% 1/6W R463 1-247-831-00 CARBON 1K 5% 1/6W R463 1-247-831-00 CARBON 1K 5% 1/6W R464 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-103-00 CARBON 68 5% 1/4W R468 1-247-103-00 CARBON 68 5% 1/4W R469 1-247-899-00 CARBON 68 5% 1/4W R469 1-247-899-00 CARBON 10K 5% 1/6W R471 1-247-895-00 CARBON 10K 5% 1/6W R471 1-247-895-00 CARBON 10K 5% 1/6W R472 1-247-895-00 CARBON 10K 5% 1/6W R472 1-247-899-00 CARBON 10K 5% 1/6W R472 1-247-899-00 CARBON 10K 5% 1/6W R472 1-247-899-00 CARBON 10K 5% 1/4W R472 1-247-895-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/6W R471 1-247-895-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5% 1/4W R472 1-247-891-00 CARBON 10K 5%	R443 R444 R445 R449	1-247-834-00 1-247-827-00 1-247-833-00 1-247-855-00	CARBON CARBON CARBON CARBON	1.3K 680 1.2K 10K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W		RV 407	1-228-722-00 FIL	RES, ADJ, (				
R462 1-247-831-00 CARBON 1K 5% 1/6W R463 1-247-107-00 CARBON 100 5% 1/4W R465 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W R466 1-247-107-00 CARBON 100 5% 1/4W  R467 1-247-103-00 CARBON 68 5% 1/4W R468 1-247-103-00 CARBON 68 5% 1/4W R469 1-247-103-00 CARBON 68 5% 1/4W R469 1-247-103-00 CARBON 68 5% 1/4W R470 1-247-899-00 CARBON 68 5% 1/6W R471 1-247-855-00 CARBON 10K 5% 1/6W R472 1-247-891-00 CARBON 330K 5% 1/6W R475 1-247-131-00 CARBON 1K 5% 1/4W	R452 R453 R454 R455 R456 R457 R459 R460	1-247-879-00 1-247-849-00 1-247-879-00 1-215-453-00 1-215-432-00 1-215-421-00 1-247-869-00 1-247-855-00	CARBON CARBON CARBON METAL METAL METAL CARBON CARBON	100K 5.6K 100K 22K 3K 1K 39K 10K	5% 5% 1% 1% 1% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W		T202 T203 T204 T205	1-404-541-11 1-404-467-00 1-404-467-00 1-404-505-00 1-404-489-00 1-425-786-00	COIL, VIF COIL, VIF COIL COIL TRANSFORMER	R, BANDP/	ASS(BP	τ)	
R472 1-247-891-00 CARBON 330K 5% 1/6W R475 1-247-131-00 CARBON 1K 5% 1/4W	R462 R463 R464 R465 R466 R467 R468 R469 R470	1-247-831-00 1-247-831-00 1-247-107-00 1-247-107-00 1-247-107-00 1-247-103-00 1-247-103-00 1-247-103-00 1-247-899-00	CARBON CARBON CARBON CARBON CARBON CARBON CARBON CARBON CARBON	1K 1K 100 100 100 68 68 68 68	5% % % % % % % % % % % % % % % % % % %	1/6W 1/6W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/6W		     X101   X102	ERY 1-567-192-11 1-567-254-11	STAL OSCILLATOR OSCILLATOR	, CERAMIO	Ç Ç		7
	R472 R475	1-247-891-00 1-247-131-00	CARBON CARBON	330K 1K	5% 5%	1/6W 1/4W		 					•	

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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description	on .		Remark
*1-613-419-21	M BOARD					RES	SISTOR	,		
	PACITOR				R1302	1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	2.2K 5% 2.2K 5% 2.2K 5%	1/4W 1/4W 1/4W	
C1301 1-102-978-00 C1302 1-102-978-00 C1303 1-101-004-00	CERAMIC CERAMIC	220PF 220PF 0.01MF	5% 5%	50V 50V 50V	R1305	1-247-717-11	CARBON	2.2K 5% 2.2K 5%	1/4W 1/4W	
C1304 1-123-318-00 C1305 1-106-196-00		33MF 0.01MF	20% 10%	16V 100V	R1307	1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	2.2K 5% 2.2K 5% 2.2K 5%	1/4W 1/4W 1/4W	
C1306 1-123-333-00 C1307 1-102-822-00 C1308 1-101-888-00	CERAMIC	100MF 390PF 68PF	20% 5% 5%	16V 50V 50V	R1309	1-247-717-11	CARBON CARBON	2.2K 5% 2.2K 5%	1/4W 1/4W	
C1309 1-102-074-00 C1310 1-102-074-00		0.001MF 0.001MF	10% 10%	50V 50V	R1312	1-247-717-11 1-247-171-00 1-247-179-00	CARBON	2.2K 5% 47K 5% 100K 5%	1/4W 1/4W 1/4W	
C1311 1-102-074-00 C1312 1-102-074-00 C1313 1-102-074-00	CERAMIC	0.001MF 0.001MF 0.001MF	10% 10% 10%	50V 50V 50V	R1314 R1315	1-247-717-11 1-246-529-00	CARBON CARBON	2.2K 5% 220K 5%	1/4W 1/4W	
C1314 1-102-074-00 DI	CERAMIC ODE	0.001MF	10%	50V	1 01017	1-247-147-00 1-247-133-00 1-247-123-00	CARRON	4.7K 5% 1.2K 5% 470 5%	1/4W 1/4W 1/4W	
D1305 8-719-911-19 D1306 8-719-911-19		, ,			R1319	1-247-107-00 1-247-155-00	CARBON CARBON	100 5% 10K 5%	1/4W 1/4W	
D1307 8-719-911-19 D1308 8-719-911-19 D1310 8-719-911-19	DIODE 1SS11	9			R1321 R1322	1-247-123-00 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	470 5% 2.2K 5% 2.2K 5%	1/4W 1/4W 1/4W	, a
D1313 8-719-911-19	DIODE 1SS119	, )			R1324 R1325	1-247-717-11 1-247-155-00	CARBON CARBON	2.2K 5% 10K 5%	1/4W	
D1314 8-719-911-19 D1316 8-719-911-19 D1317 8-719-911-19 D1320 8-719-911-19	DIODE 1SS119	) ) ) (a)			R1326 R1327 R1328	1-247-133-00 1-247-107-00 1-247-155-00 1-247-175-00 1-247-717-11 1-247-717-11 1-247-717-11 1-247-155-00 1-247-163-00 1-247-199-00 1-247-199-00 1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	22K 5% 330 5% 22 5%	1/4W 1/4W 1/4W	
D1321 8-719-911-19 D1322 8-719-102-58		) E-N2			R1329 R1330	1-247-159-00 1-247-717-11	CARBON CARBON	15K 5% 2.2K 5%	1/4W 1/4W	
<u>1C</u>		: <b>-</b> NZ			R1331	1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	2.2K 5% 2.2K 5% 2.2K 5%	1/4W 1/4W 1/4W	
IC1301 8-759-909-49					R1334	1-247-717-11 1-247-717-11	CARBON CARBON	2.2K 5% 2.2K 5%	1/4W 1/4W	
<u>co</u>	<u>IL</u>				R1336	1-247-131-00	CARBON	1K 5%	1/4W	
L1301 1-407-705-00	MIGRO INDUCT	OR 100UH			R1337 R1338 R1339	1-247-717-11 1-247-717-11 1-247-717-11	CARBON CARBON CARBON	2.2K 5% 2.2K 5% 2.2K 5%	1/4W 1/4W 1/4W	
					R1340	1-247-717-11	CARBON	2.2K 5%	1/4W	
M1	redd, connec	10% (2.3004)	Or .			1-247-717-11 1-247-717-11	CARBON CARBON	2.2K 5% 2.2K 5%	1/4W 1/4W	
M8 *1-564-442-11	PLUG, CONNEC	TOR (2.5MM)	6P		 	<u>SW.</u>	TCH			
TR	ANSISTOR					1-553-976-00 1-553-976-00				*
Q1301 8-729-245-83 Q1302 8-729-245-83 Q1303 8-729-245-83	TRANSISTOR 2	?SC 2458			S1303 S1304	1-553-976-00 1-553-976-00 1-570-061-11	SWITCH, PU	JSH JSH		
						1-570-061-11 1-570-061-11		JSH (8 KEY) JSH (8 KEY)		

## (V-25XBR M-724/APM-X3U

	L											
Ref.No.	Part No.	<u>Description</u>			Remark	Ref.No.	Part No.	$\underline{\mathtt{Description}}$				Remark
	1-570-061-11 1-553-976-00	ŚWITCH, PUSH SWITCH, PUSH	(8 KEY)			C764	1-123-321-00	ELECT	220MF	;	20%	16V
	1-570-061-11	SWITCH, PUSH	(8 KEY)				DIO	<u>DE</u>				
	1-553-976-00 1-570-061-11	SWITCH, PUSH SWITCH, PUSH	(8 KEY)			D701	8-719-911-19					
\$1313	1-570-061-11	SWITCH, PUSH	(8 KEY)		,	D702 D703	8-719-911-19 8-719-911-19	DIODE 188119	}			
	1-570-062-11 1-570-062-11	SWITCH, PUSH SWITCH, PUSH				D704 D705	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				
\$1319	1-570-061-11 1-554-824-11	SWITCH, PUSH SWITCH, PUSH	(8 KEY)	*		D706	8-719-911-19	DIODE 188119	) ·			
	1-554-824-11						COI					
31322	•		9 + 40211			   L701	1-407-701-00	-	TOD 4711H			
		STAL	CÉDANTO			L702	1-407-701-00	MICRO INDUCT	OR 47UH			
	1-527-476-00	•				L703	1-407-701-00 1-407-701-00	MICRO INDUCT	OR 47UH			
*****	****			*****	*****	L705	1-459-598-11	·		JM TY	PE)	
	*A-1330-620-A	C BOARD, COM	PLETE *****			L751 	1-407-697-00	MICRO INDUCT	FOR 22UH	•		
1844 (1715) 1844 (1715)	<b>∆1-526-644-7</b> 1	SOCKET, CRT	and a second	re vee	r ctriu		TRA	NSISTOR				
42/4/2 17 (S, 14/4)		NECTOR		erdinde zu, is neutrie et i	elik a	0701 0702	8-729-245-83 8-729-326-11	TRANSISTOR 2				
						Q703	8-729-245-83	TRANSISTOR 2	2SC 2458			
C1 C2 C4	*1-506-371-00 *1-564-353-00 *1-508-765-00	2P PLUG (L) PLUG, CONNEC 3P PLUG (M)	TOR (2.5MM)	2P		Q704   Q705 	8-729-326-11 8-729-245-83	TRANSISTOR 2				
	CAP	AC ITOR				Q706   Q751	8-729-326-11 8-729-245-83	TRANSISTOR 2				•
C 701	1-102-155-00		330PF	20%	2KV	Q752 Q753	8-729-245-83 8-729-245-83	TRANSISTOR 2				
C 702	1-129-779-00 1-123-383-00	FILM ELECT	0.022MF 4.7MF	20% 20%	1KV 100V	Q754	8-729-103-43	TRANSISTOR 2				
C 703 C 704	1-121-759-00	ELECT	4.7MF	LUN	250V	0755	8-729-177-43	TRANSISTOR 2				
C 705	1-161-830-00	CERAMIC	0.0047MF	•••	500V	Q756   Q757	8-729-177-43 8-729-245-83	TRANSISTOR 2				
C 706 C 708	1-129-714-00 1-102-115-00	FILM CERAMIC	0.01MF 560PF	10% 10%	630V 50V	 	RES	ISTOR				
C 709 C 710	1-102-115-00 1-102-116-00	CERAMIC CERAMIC	560PF 680PF	10% 10%	50V 50V	R701	1-202-846-00	SOLID	470K		1/2W	
C711	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R702 R703	1-202-720-00 1-202-844-00	SOLID SOLID	1.2M : 330K	10%	1/2W 1/2W	
C712	1-123-356-00	ELECT	10MF	20%	25V	R704	1-202-836-00 1-202-846-00	SOLID SOLID	56K 470K		1/2W 1/2W	
C713 C714	1-102-074-00 1-102-074-00	CERAMIC CERAMIC	0.001MF 0.001MF	10% 10%	50V 50V	R705						
C715 C751	1-102-074-00 1-102-971-00	CERAMIC CERAMIC	0.001MF 82PF	10% 5%	50V 50V	R707 R708	1-202-842-51 1-202-824-00	SOLID SOLID	220K 3.3K		1/2W 1/2W	
C 752	1-106-178-00	MYLAR	0.0018MF	10%	100V	R709 R711	1-202-824-00	SOLID SOLID	3.3K 100	10%	1/2W 1/2W	
C753	1-106-212-00	MYLAR ELECT	0.047MF 10MF	10% 20%	100V 25V	R712	1-202-543-00	SOLID		10%	1/2W	
C 754 C 755	1-123-356-00 1-102-980-00	CERAMIC	270PF	5%	50V	R713	1-202-824-00	SOLID	3.3K		1/2W	
C756	1-106-196-00	MYLAR	0.01MF	10%	100V	R714 R715	1-247-107-00 1-247-819-00	CARBON CARBON		5% 5%	1/4W 1/6W	
C758	1-106-196-00	MYLAR MYLAR	0.01MF 0.01MF	10% 10%	100V 100V	R716	1-247-817-00	CARBON		5%	1/6W	
C 760 C 761	1-106-196-00 1-106-220-00	MYLAR	0.1MF	10%	100V	R717	1-249-421-11	CARBON		5%	1/6W	
C762 C763	1-106-196-00 1-123-356-00	MYLAR	0.01MF 10MF	10% 20%	100V 50V	R718 R719	1-247-783-00 1-247-841-00	CARBON CARBON	10 ! 2.7K !	5% 5%	1/6W 1/6W	

The components identified by shading and mark A are critical for safety. Replace only with part number specified. 



### 1-247-#283-00 CARRON 10													L	لـــا
1.206-787-00 WETAL OXIDE 8.2x 5x 3W F R723 1-247-819-00 CARBON 30 5x 1/6W CAPACITOR R724 1-247-819-00 CARBON 20 5x 1/6W CAPACITOR R724 1-247-819-00 CARBON 20 5x 1/6W CAPACITOR CAPACITOR R724 1-247-819-00 CARBON 20 5x 1/6W CAPACITOR CAPACITOR CAPACITOR R725 1-249-421-11 CARBON 2.2x 5x 1/6W CAPACITOR CAPACITOR CAPACITOR R726 1-247-819-00 CARBON 10 5x 1/6W C602 1-123-333-00 ELECT 100MF 20X 25W R728 1-247-819-00 CARBON 10 5x 1/6W C604 1-102-125-00 CERAMIC 0.0047MF 10X 50W R728 1-247-819-00 CARBON 20 5x 5x 1/6W C604 1-102-125-00 CERAMIC 0.0047MF 10X 50W R728 1-247-819-00 CARBON 20 5x 1/6W C606 1-123-330-00 ELECT 100MF 20X 25W R731 1-247-819-00 CARBON 20 5x 1/6W C606 1-123-330-00 ELECT 100MF 20X 25W R733 1-249-421-11 CARBON 2.2x 5x 1/6W C606 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-781-00 CARBON 2.2x 5x 1/6W C606 1-123-330-00 ELECT 30MMF 20X 25W R735 1-247-781-00 CARBON 2.2x 5x 1/6W C606 1-123-330-00 ELECT 30MMF 20X 25W R735 1-247-781-00 CARBON 2.2x 5x 1/6W C606 1-123-330-00 ELECT 30MMF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 30MMF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 2.2x 5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247-81-00 CARBON 3.5x 1/6W C611 1-123-330-00 ELECT 100MF 20X 25W R735 1-247	Ref	.No.	Part No.	<u>Description</u>				Remark	Ref.No.	Part No.	Description			Remark
R726   1-247-783-00   CARBON   10   5%   1/64   C602   1-123-333-00   ELECT   100MF   20%   16%   R727   1-247-835-00   CARBON   1.5%   5%   1/64   C603   1-102-125-00   CRRMIC   0.0047MF   10%   50%   R730   1-206-747-00   METAL OXIDE   8.2%   5%   3/64   C603   1-102-125-00   CRRMIC   0.0047MF   10%   50%   7/64   C603   1-102-125-00   CRRMIC   0.0047MF   10%   50%   7/64   C603   1-123-333-00   ELECT   100MF   20%   50%   7/64   C603   1-123-335-00   ELECT   100MF   20%   50%   50%   7/64   C605   1-23-335-00   ELECT   100MF   20%   50%   7/64   C605   1-23-335-00   ELECT   100MF   20%   50%   7/64   C605   1-23-335-00   ELECT   300MF   20%   50%   7/64   C605   1-23-335-00   ELECT   300MF   20%   50%	R7: R7: R7:	22 23 24	1-206-747-00 1-247-819-00 1-247-817-00	METAL OXIDE CARBON CARBON	8.2K 330 270	5% 5% 5%	3W 1/6W 1/6W	F		4-363-414-00 4-374-104-01	SPACER, MICA HOLDER, TR			
\$\frac{97.77}{2.247_835_00}\$ CARBON \$\frac{1}{1.5K}\$ \times \times \text{\$\frac{1}{1.6W}\$}\$ C603 \$\frac{1}{1-02.125_00}\$ CERAMIC \$0.0047\mu\$ \$10X\$ \$50Y\$ \$87.30\$ \$1.206_747_00\$ METAL OXIDE \$8.2K\$ \$3 \text{\$\frac{1}{3}\text{\$\subset\$}\text{\$\frac{1}{6}\text{\$\subset\$}\tex	R 7	25	1-249-421-11	CARBON	2.2K	5%	T\ DM			CAP	ACTION			
## 1-247-815-00 CARBON 2.2	R 7: R 7: R 7:	27 28 30	1-247-835-00 1-247-817-00 1-206-747-00	CARBON CARBON METAL OXIDE	1.5K 270 8.2K	5% 5% 5%	1/6W 1/6W 3W	F	C603   C604   C605	1-102-125-00 1-102-125-00 1-123-333-00	CERAMIC CERAMIC ELECT	0.0047MF 0.0047MF 100MF	10% 10% 20%	16V 50V 50V 25V 50V
R752   1-247-815-00   CARBON   220   5x   1/6W   C620   1-101-002-00   CERAMIC   0.0022MF   20x   300   R754   1-247-829-00   CARBON   820   5x   1/6W   C620   1-136-31-51   FILM   0.047MF   20x   300   R754   1-247-829-00   CARBON   820   5x   1/6W   C621   1-130-678-51   FILM   0.047MF   20x   125   R755   1-213-147-00   METAL OXIDE   2.2X   5x   1W   F   C622   1-161-744-51   FILM   0.047MF   20x   125   R757   1-247-829-00   CARBON   5.6X   5x   1/6W   C624   1-161-744-51   CERAMIC   0.0047MF   20x   400   R759   1-247-829-00   CARBON   5.6X   5x   1/6W   C624   1-161-953-51   CERAMIC   0.0047MF   20x   400   R759   1-247-829-00   CARBON   33   5x   1/6W   C625   1-161-363-51   CERAMIC   0.0047MF   20x   400   R759   1-247-839-00   CARBON   330   5x   1/6W   C625   1-161-363-51   CERAMIC   0.0047MF   20x   400   R750   1-247-819-00   CARBON   220   5x   1/6W   C627   1-125-295-00   ELECT(BLOCK) 560MF   20x   20x   400   R761   1-247-815-00   CARBON   220   5x   1/6W   C629   1-161-953-51   CERAMIC   0.0047MF   20x   400   R764   1-247-815-00   CARBON   220   5x   1/6W   C629   1-161-953-00   CERAMIC   0.0047MF   20x   400   R764   1-247-815-00   CARBON   220   5x   1/6W   C629   1-161-953-00   CERAMIC   0.0047MF   20x   400   R764   1-247-815-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20x   400   R765   1-247-815-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20x   400   R766   1-247-857-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20x   400   R766   1-247-857-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20x   400   R766   1-247-857-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20x   500   R776   1-247-857-00   CARBON   3x   5x   1/6W   C1501   1-102-117-00   MYLAR   0.0047MF   5x   500   MYLAR   0.0047MF   0x   5x   500   MYLAR   0.0047MF   0x   5x   5x   5x   5x   5x   5x   5x	R 7 R 7 R 7	'33 '34 '35	1-249-421-11 1-247-841-00 1-247-777-00	CARBON CARBON CARBON	2.2K 2.7K 5.6	5% 5% 5%	1/6W 1/6W 1/6W	F	C608   C610   C611	1-123-330-00 1-123-335-00 1-123-360-00	ELECT ELECT ELECT	22MF 330MF 100MF	20% 20% 20%	16V 16V 25V 50V 16V
R757   1-247-849-00   CARBON   33K   5K   1/6W   C625   1-167-953-51   CERAMIC   0.0047MF   20X   400   40	R 7 R 7 R 7	752 753 754	1-247-815-00 1-247-833-00 1-247-829-00	CARBON CARBON CARBON	220 1.2K 820	5% 5% 5%	1/6W 1/6W 1/6W	7. .F	C614   C620 A   C621 A	1-101-002-00 31-136-311-51 1-130-678-51	CERAMIC FILM FILM	0.0022MF 0.47MF 0.047MF	20% 20%	125V
R762   1-247-815-00   CARBON   220   5%   1/6W   C630   1-161-953-00   CERAMIC   0.0047MF   20%   400   R764   1-247-831-00   CARBON   1%   5%   1/6W   C1501   1-102-117-00   CERAMIC   0.0047MF   20%   400   R765   1-247-775-00   CARBON   33K   5%   1/6W   C1502   1-162-117-00   CERAMIC   100PF   10%   500   R766   1-247-867-00   CARBON   33K   5%   1/6W   C1502   1-162-117-00   CERAMIC   100PF   10%   500   R767   1-247-867-00   CARBON   33K   5%   1/6W   C1503   1-106-172-00   MYLAR   0.001MF   10%   100   R768   1-247-867-00   CARBON   1%   5%   1/6W   C1504   1-123-380-00   ELECT   1MF   20%   50V   R769   1-247-831-00   CARBON   1%   5%   1/6W   C1505   1-106-172-00   MYLAR   0.047MF   10%   100   R771   1-247-871-00   CARBON   47%   5%   1/6W   C1507   1-108-595-00   MYLAR   0.047MF   10%   100   R772   1-247-791-00   CARBON   22   5%   1/6W   C1508   1-106-192-00   MYLAR   0.047MF   5%   50V   R773   1-247-801-00   CARBON   4.7   5%   1/6W   C1508   1-106-192-00   MYLAR   0.0068MF   10%   100   R776   1-247-775-00   CARBON   4.7   5%   1/6W   C1501   1-106-200-00   MYLAR   0.002MF   10%   100   R776   1-247-775-00   CARBON   4.7   5%   1/6W   C1501   1-106-200-00   MYLAR   0.002MF   10%   100   R776   1-247-775-00   CARBON   4.7   5%   1/6W   C1501   1-106-200-00   MYLAR   0.002MF   10%   100   1	R 7 R 7 R 7	757 758 759	1-247-849-00 1-247-867-00 1-247-783-00	CARBON CARBON CARBON	5.6K 33K 10	5% 5% 5%	1/6W 1/6W 1/6W		C624 A C625 A C626 A	1-161-953-51 1-161-744-51 1-161-953-51	CERAMIC CERAMIC CERAMIC	0.0047MF 0.01MF 0.0047MF	20% 20% 20%	400V
R768 1-247-887-00 CARBON 33K 5% 1/6W C1504 1-123-380-00 ELECT 1MF 20% 50V R769 1-247-831-00 CARBON 1K 5% 1/6W C1505 1-106-212-00 MYLAR 0.047MF 10% 100 CR71 1-247-871-00 CARBON 47K 5% 1/6W C1505 1-108-595-00 MYLAR 0.047MF 5% 50V R772 1-247-791-00 CARBON 22 5% 1/6W C1508 1-106-192-00 MYLAR 0.047MF 5% 10% 100 CR772 1-247-775-00 CARBON 4.7 5% 1/6W C1508 1-106-220-00 MYLAR 0.0068MF 10% 100 C1510 1-247-775-00 CARBON 4.7 5% 1/6W C1510 1-106-204-00 MYLAR 0.022MF 10% 100 C1511 1-123-3356-00 ELECT 10MF 20% 16W C1501 10W C1511 1-1	R 7 R 7 R 7	762 764 765	1-247-815-00 1-247-831-00 1-247-775-00	CARBON CARBON CARBON	220 1K 4.7	5% 5% 5%	1/6W 1/6W 1/6W		C629 C630 C1501	1-161-953-00 1-161-953-00 1-102-117-00	CERAMIC GERAMIC CERAMIC	0.0047MF 0.0047MF 820PF	20% 20% 10%	200V 400V 400V 50V 500V
R776 1-247-775-00 CARBON 4.7 5% 1/6W C1510 1-106-204-00 MYLAR 0.022MF 10% 100 C1511 1-123-356-00 ELECT 10MF 20% 16V C1512 1-123-381-00 ELECT 10MF 20% 50V C1512 1-123-381-00 ELECT 2.2MF 20% 50V C1513 1-130-868-00 FILM 0.0056MF 5% 50V RV701 1-226-157-00 RES, ADJ, CARBON 3.3K C1514 1-123-356-00 ELECT 10MF 20% 16V RV703 1-230-617-11 RES, ADJ, CARBON 1K C1515 1-123-356-00 ELECT 10MF 20% 16V RV704 1-230-105-00 RES, ADJ, CARBON 1K C1516 1-102-820-00 CERAMIC 330PF 5% 50V RV705 1-230-617-11 RES, ADJ, CARBON 1K C1517 1-123-321-00 ELECT 220MF 20% 16V RV706 1-230-105-00 RES, ADJ, CARBON 3.3K C1516 1-102-820-00 ELECT 220MF 20% 50V RV706 1-230-105-00 RES, ADJ, CARBON 3.3K C1518 1-123-447-00 ELECT 0.22MF 20% 50V RV707 1-230-105-00 RES, ADJ, CARBON 3.3K C1518 1-123-379-00 ELECT 0.47MF 5% 50V 50V 84-1-105-105-105-105-105-105-105-105-105-1	R Z R Z R Z	768 769 771	1-247-867-00 1-247-831-00 1-247-871-00	CARBON CARBON CARBON	33K 1K 47K	5% 5% 5%	1/6W 1/6W 1/6W		C1504 C1505 C1507	1-123-380-00 1-106-212-00 1-108-595-00	ELECT MYLAR MYLAR	1MF 0.047MF 0.047MF	20% 10% 5%	100V 50V 100V 50V 100V
RV701 1-226-157-00 RES, ADJ, METAL GLAZE 1M RV702 1-230-105-00 RES, ADJ, CARBON 3.3K RV703 1-230-617-11 RES, ADJ, CARBON 1K RV704 1-230-105-00 RES, ADJ, CARBON 3.3K RV705 1-230-617-11 RES, ADJ, CARBON 1K RV706 1-230-105-00 RES, ADJ, CARBON 1K RV707 1-230-105-00 RES, ADJ, CARBON 3.3K									C1510	1-106-204-00	MYLAR	0.022MF	10%	100V 100V 16V
RV701 1-226-157-00 RES, ADJ, CARBON 3.3K C1514 1-123-356-00 ELECT 10MF 20% 16V RV703 1-230-105-00 RES, ADJ, CARBON 1K C1515 1-123-356-00 ELECT 10MF 20% 16V RV704 1-230-105-00 RES, ADJ, CARBON 1K C1516 1-102-820-00 CERÁMIC 330PF 5% 50V RV705 1-230-617-11 RES, ADJ, CARBON 1K C1517 1-123-321-00 ELECT 220MF 20% 16V C1518 1-123-447-00 ELECT 0.22MF 20% 50V RV706 1-230-105-00 RES, ADJ, CARBON 3.3K C1518 1-123-447-00 ELECT 0.22MF 20% 50V RV707 1-230-105-00 RES, ADJ, CARBON 3.3K C1519 1-136-891-11 FILM 0.47MF 5% 50V C1520 1-123-379-00 ELECT 0.47MF 20% 50V C1520 1-123-379-00 ELECT 0.47MF 20% 50V C1522 1-106-172-00 MYLAR 0.001MF 10% 100 C1522 1-106-172-00 MYLAR 0.001MF 10% 100 C1524 1-106-204-00 MYLAR 0.002MF 10% 50V S0V S0V S0V S0V S0V S0V S0V S0V S0V S			<u>v</u> ar	IABLE RESISTOR	-								C-11	50V 50V
RV706 1-230-105-00 RES, ADJ, CARBON 3.3K RV707 1-230-105-00 RES, ADJ, CARBON 3.3K C1520 1-123-379-00 ELECT 0.47MF 5% 50V ************************************	R\ R\ R\	v 702 v 703 v 704	1-230-105-00 1-230-617-11 1-230-105-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 3. BON 1K BON 3.	3K 3K		•	C1514 C1515 C1516 C1517	1-123-356-00 1-123-356-00 1-102-820-00 1-123-321-00	ELECT ELECT CERAMIC ELECT	10MF 10MF 330PF 220MF	20% 20% 5% 20%	16V 16V 50V 16V
**************************************	R)	V 706 V 707	1-230-105-00 1-230-105-00	RES, ADJ, CAR RES, ADJ, CAR	BON 3. BON 3.	3K 3K			   C1519	1-136-891-11	FILM	0.47MF	5%	50V
*1-508-765-00 3P PLUG (M) C1525 1-123-369-00 ELECT 4.7MF 20% 50V	**:	****		D BOARD, COMP	LETE	*****	*****	******	C1521	1-123-380-00 1-106-172-00	ELECT MYLAR	1MF 0.001MF	20% 10%	50V 50V 100V 50V
*4-329-153-00 HEAT SINK, V OUT   C1526 1-123-323-00 ELECT 470MF 20% 16V					OUT				C1525	1-123-369-00	ELECT			100V 50V 16V

#### **V-25XBR** M-724/APM-X3U



Ref.No.	Part No.	Description			Remark	Ref.No. Part No.	Description			Remark
C1528 C1529 C1530	1-106-190-00 1-106-204-00 1-102-030-00 1-123-357-00 1-102-038-00	MYLAR MYLAR CERAMIC ELECT CERAMIC	0.0056MF 0.022MF 330PF 22MF 0.001MF	10% 10% 10% 20%	100V 100V 500V 500V 500V	C1611 1-106-212-00 C1651 1-123-364-00 C1652 1-102-038-00 C1653 1-108-429-00 C1654 1-102-223-00	MYLAR ELECT CERAMIC MYLAR CERAMIC	0.047MF 1000MF 0.001MF 0.047MF 0.0047MF	10% 20% 10% 10%	100V 50V 500V 200V 2KV
C1536 C1538	1-123-356-00 1-106-190-00 1-123-232-00 1-102-117-00 1-123-332-00	ELECT MYLAR ELECT CERAMIC ELECT	10MF 0.0056MF 4.7MF 820PF 47MF	20% 10% 20% 10% 20%	16V 100V 50V 50V 25V	C1655 1-102-212-00 C1656 1-123-336-00 C1657 1-124-347-00 C1658 1-123-384-00 C1659 1-106-377-00	CERAMIC ELECT ELECT ELECT MYLAR	820PF 470MF 100MF 10MF 0.027MF	10% 20% 20% 20% 10%	500V 25V 160V 100V 200V
C1542 C1543 C1544	1-102-157-00 1-123-332-00 1-102-030-00 1-108-437-00 1-108-431-00	CERAMIC ELECT CERAMIC MYLAR MYLAR	560PF 47MF 330PF 0.22MF 0.068MF	10% 20% 10% 10% 10%	500V 16V 500V 200V 200V	C1660	ELECT CERAMIC MYLAR CERAMIC FILM 3013	0.47MF 220PF 0.01MF 470PF 0.025MF	20% 10% 10% 10% 3%	50V 500V 200V 2KV 2KV
C1547 C1548 C1549	1-123-931-00 1-123-356-00 1-102-212-00 1-108-429-00 1-108-429-00	ELECT ELECT CERAMIC MYLAR MYLAR	3.3MF 10MF 820PF 0.047MF 0.047MF	20% 20% 10% 10% 10%	160V 50V 500V 200V 200V	C1665 A1- 62-115-51   C1666	MYLAR FILM FILM	330PF 00- 0.0022MF 0.047MF 0.0015MF 47MF	10% 5%	200V - <b>63</b> 0V
C1552 C1553 C1555	1-124-609-11 1-123-380-00 1-123-357-00 1-106-172-00 1-106-188-00	ELECT ELECT ELECT MYLAR MYLAR	470MF 1MF 22MF 0.001MF 0.0047MF	10% 20% 20% 10% 10%	50V 50V 50V 100V 100V	C1670 A 1-136-053-11 C1671 1-106-172-00 C1672 1-108-431-00 C1673 A 1-136-179-11 C1674 1-136-184-00	MYLAR MYLAR FILM	0.001MF 0.068MF	10% 10%	100V 200V
C1559 C1567	1-136-173-00 1-102-212-00 1-101-004-00 1-102-112-00 1-106-196-00	FILM CERAMIC CERAMIC CERAMIC MYLAR	0.47MF 820PF 0.01MF 330PF 0.01MF	5% 10% 10% 10%	50V 500V 50V 50V 100V	C1675 A]-162-115-51   C1676		330PF 0.047MF 33PF	10% 10% 10%	2KV 200V 500V
C1576	1-123-380-00 1-106-204-00 1-106-196-00 1-106-212-00 1-106-212-00	ELECT MYLAR MYLAR MYLAR MYLAR	1MF 0.022MF 0.01MF 0.047MF 0.047MF	20% 10% 10% 10% 10%	50V 100V 100V 100V 100V	D1		TOR (2.5MM) TOR (2.5MM)	8P 5P	
	1-123-379-00 1-123-330-00 1-123-356-00 1-123-356-00 1-123-379-00	ELECT ELECT ELECT ELECT	0.47MF 22MF 10MF 10MF 0.47MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 50V	D6	4P PLUG (M) 3P PLUG (M) 3P PLUG (M) 5P PLUG PLUG, CONNEC	TOR (2.5MM)	5P	
C1596 C1600	1-106-196-00 1-106-184-00 1-102-117-00 1-106-180-00 1-106-208-00	MYLAR MYLAR CERAMIC MYLAR MYLAR	0.01MF 0.0033MF 820PF 0.0022MF 0.033MF	10% 10% 10% 10% 10%	100V 100V 50V 100V 100V	D13	PLUG, CONNEC 3P PLUG (M)	TOR (2.5MM F	PITCH)	
C1602 C1604 C1605 C1606 C1607	1-106-184-00 1-123-359-00 1-123-357-00 1-123-332-00 1-123-360-00	MYLAR ELECT ELECT ELECT ELECT	0.0033MF 47MF 22MF 47MF 100MF	10% 20% 20% 20% 20%	100V 50V 50V 16V 50V	i	3P PLUG (M) 4P PLUG (M) DDE			
	1-129-701-00 1-106-208-00 1-123-361-00	FILM MYLAR ELECT	0.01MF 0.033MF 220MF	5% 10% 20%	100V 100V 50V	D605	DIODE 188119 DIODE 188119		£24-228	***



Ref.No. Part No.		Ref.No. Part No.	<u>Description</u> <u>Remark</u>
D610 8-719-102-72 D621 8-719-911-55 D622 8-719-911-55 D623 8-719-911-55 D1501 8-719-911-19	DIODE UOSG	L1519 1-407-365-00 L1520 1-407-365-00 L15221.1-459-485-11	COIL, CHOKE
D1502 8-719-190-00 D1503 8-719-100-35 D1504 8-719-911-55 D1507 8-719-100-35 D1508 8-719-101-58	DIODE RD24E-BZ7 DIODE RD5.6E-B2 DIODE UO5G DIODE RD5.6E-B2 DIODE RD5.6E-L2	Q602	TRANSISTOR 2SC1652 TRANSISTOR 2SD788 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2690A TRANSISTOR 2SA1220A TRANSISTOR 2SC2690A TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458
D1509 8-719-911-19 D1510 8-719-911-19 D1511 8-719-911-19 D1512 8-719-911-19 D1513 8-719-300-76	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RH1A	01504 8-729-245-83   01506 8-729-204-83   01507 A 8-729-169-02   01508 A 8-729-122-02   01509 8-729-195-82	TRANSISTOR 2SC2458 TRANSISTOR 2SA1048GR TRANSISTOR 2SC2690A 00-134-13-13-13-13-13-13-13-13-13-13-13-13-13-
D1514 8-719-200-02 D1515 8-719-911-55 D1516 8-719-200-02 D1517 8-719-911-19 D1651 8-719-300-38	DIODE 10E2 DIODE U05G DIODE 10E2 DIODE 1SS119 DIODE GU-3A	Q1510	TRANSISTOR 2SA1048GR TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458
D1654 8-719-901-19 D1655 8-719-305-15 D1656 8-719-305-15	DIODE EMIZS DIODE RHIA DIODE VIIN DIODE GH3F DIODE GH3F	Q1516	TRANSISTOR 25C2458 TRANSISTOR 25C2458 TRANSISTOR 25A1220A TRANSISTOR 25C2690A
D1657 8-719-900-26 D1658 8-719-911-55 D1659 8-719-911-55 D1660 8-719-300-65	DIODE ERD29-08J DIODE UO5G DIODE UO5G DIODE ES1F	4-342-013-00   Q1525 8-729-245-83   01527 8-729-175-22	TRANSISTOR 2SC3317 SPACER, MICA, Q1524 TRANSISTOR 2SC2458 TRANSISTOR 2SC2752 TRANSISTOR 2SD1497-06
FUS	SE <sub>.</sub>		The state of the s
F601 A.1-532-627-11 1-517-072-00 IC	EUSE, GLASS TUBE 7A/125V LAMP HOLDER, F601  IC UPC1377C IC TDA1082	R602	CARBON 2.2K 5% 1/4W METAL OXIDE 220 5% 201W F 780 5
IC1501 8-759-100-60 IC1502 8-759-905-39	IC UPC1377C IC TDA1082	R6064\(^1-247-040-11\)   R607\(^1-247-855-00\)   R608\(^1-247-131-00\)	
CO: L 1501 A1=459=059=12 L 1504 1 -408=225-00	COIL, DUST CORE MICRO INDUCTOR 3.3UH MICRO INDUCTOR 3.3UH MICRO INDUCTOR 3.3UH	R620 <u>A</u>   1-202-723-51	SOLID 33130 2:2M 10% 311/2W 3 3238 SOLID 332:2M 10% 311/2W 12343 CEMENTED 1.2 5% 15W
11507 / 1=459=104-11	COIL, DUST CORE	R1501 1-247-155-00	CARBON 1K 5% 1/6W CARBON 10K 5% 1/4W
L1508 1-407-877-00 L1509 1-459-119-00 L1512 1-459-215-00 L1513 1-459-104-00	MICRO INDUCTOR 15MMH COIL, DUST CORE(ARC) CORE COIL COIL, DUST CORE	R1502 1-206-700-00 R1503 1-247-815-00 R1504 1-247-819-00	METAL OXIDE 33K 5% 2W F CARBON 22O 5% 1/6W
L1514/, 1=459=308=31 L1515/\_1=421=390=11	COIL, HORIZONTAL LINEARITY  COIL, FERRITE (PMC)	R1505 1-247-845-00 R1506 1-247-107-00 R1507 1-246-536-00	CARBON 3.9K 5% 1/6W CARBON 100 5% 1/4W CARBON 430K 5% 1/4W
L1516 1-408-235-00 L1517 1-407-365-00 L1518 1-407-365-00	MICRO INDUCTOR 2.2MMH COIL, CHOKE COIL, CHOKE	R1508	CARBON 22K 5% 1/4W  CARBON 22K 5% 1/6W

#### V-25XBR 1-724/APM-X3U



Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R1511 R1512 R1513	1-247-877-00 1-247-868-00 1-247-819-00 1-247-177-00 1-247-143-00	CARBON CARBON CARBON CARBON CARBON	82K 36K 330 82K 3.3K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/4W		R1567 R1568 R1569	1-247-034-00 1-213-141-00 1-247-797-00 1-213-148-00 1-247-835-00	CARBON METAL OXIDE CARBON METAL OXIDE CARBON	220 680 39 2.7K 1.5K	5% 5% 5% 5% 5%	1/8W 1W 1/8W 1W 1/6W	F F F
	1-247-857-00 1-247-867-00 1-247-827-00 1-247-827-00 1-247-851-00	CARBON CARBON CARBON CARBON CARBON	12K 33K 680 680 6.8K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1571 R1572 R1573 R1574 R1575	1-247-167-00 1-247-873-00 1-247-855-00 1-247-843-00 1-247-835-00	CARBON CARBON CARBON CARBON CARBON	33K 56K 10K 3.3K 1.5K	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	•
R1521 R1522	1-247-135-00 1-247-177-00 1-215-463-00 1-247-857-00 1-247-158-00	CARBON CARBON METAL CARBON CARBON	1.5K 82K 56K 12K 13K	5% 5% 1% 5% 5%	1/4W 1/4W 1/6W 1/6W 1/4W		R1577 MR1578∆ R1579	1-247-815-00 1-247-131-00 1-215-411-00 1-247-823-00	CARBON CARBON METAL METAL CARBON	220 1K 390 470	5% 5% 1% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R1526 R1527 R1528	1-247-845-00 1-247-867-00 1-247-155-00 1-247-839-00 1-214-753-00	CARBON CARBON CARBON CARBON METAL	3.9K 33K 10K 2.2K 10K	5% 5% 5% 5% 1%	1/6W 1/6W 1/4W 1/6W 1/4W		R1581 R1582 R1583 R1584 R1585	1-247-837-00 1-246-485-25 1-212-364-00 1-213-147-00 1-247-171-00	CARBON CARBON METAL OXIDE METAL OXIDE CARBON	1.8K 3.3K 2.2 2.2K 47K	5% 5% 5% 5% 5%	1/6W 1/4W 1W 1W 1/4W	F '
■R1531 <u>A</u> R1532	1-247-855-00 1-206-692-00	METAL METAL CARBON METAL OXIDE METAL	10K 15K	1% 5% 5%	1/6W 2W	F 100 211	R1586 R1587 R1588 R1589 R1590	1-206-463-00 1-206-463-00 1-247-161-00 1-247-855-00 1-249-421-11	METAL OXIDE METAL OXIDE CARBON CARBON CARBON	10 10 18K 10K 2.2K	5% 5% 5% 5% 5%	2W 2W 1/4W 1/6W 1/6W	<b>F</b>
R1538 R1539	1-214-783-00 1-214-753-00 1-247-177-00 1-246-545-00	METAL METAL METAL CARBON CARBON		1% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	Fac	R1592	1-247-849-00 1-247-843-00 1-247-831-00 1-247-857-00 1-247-875-00	CARBON CARBON CARBON CARBON CARBON	5.6K 3.3K 1K 12K 68K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1541 R1543 R1544 R1545 R1546	1-202-723-00 1-214-750-00 1-214-779-00 1-214-781-00 1-247-831-00	SOLID METAL METAL METAL CARBON	7.5K 120K	10% 1% 1% 1% 5%	1/2W 1/4W 1/4W 1/4W 1/6W		R1596 R1597 R1598 R1599 R1600	1-247-879-00 1-247-847-00 1-247-875-00 1-249-421-11 1-247-855-00	CARBON CARBON CARBON CARBON CARBON	100K 4.7K 68K 2.2K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1547 R1548 R1549 R1550 R155I	1-214-766-00 1-247-119-00 1-247-833-00 1-213-161-00 1-247-131-00	METAL CARBON CARBON METAL OXIDE CARBON	36K 330 1.2K 33K 1K	1% 5% 5% 5% 5%	1/4W 1/4W 1/6W 1W 1/4W	F	R1601 R1602 R1603 R1604 R1605	1-247-867-00 1-247-717-11 1-247-167-00 1-247-855-00 1-247-871-00	CARBON CARBON CARBON CARBON CARBON	33K 2.2K 33K 10K 47K	5% 5% 5% 5% 5% 5%	1/6W 1/4W 1/4W 1/6W 1/6W	
R1552 R1553 R1554 R1555 ₩R1556	1-247-109-00 1-213-155-00 1-247-807-00 1-247-879-00	CARBON METAL OXIDE CARBON CARBON	120 10K 100 100K	5% 5% 5% 5%	1/6W 1/6W	F		1-247-871-00 1-247-833-00 1-247-875-00 1-247-875-00 1-247-855-00	CARBON CARBON CARBON CARBON CARBON	47K 1.2K 68K 68K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1559 R1560/ R1561/	1-247-903-00 1-247-903-00 1-247-033-11 1-246-993-11 1-213-145-00		1M 1M 100 470 1.5K	5% 5% 5% 5%	1/8W	F ***** F	R1612 R1613 R1614	1-247-831-00 1-247-107-00 1-247-875-00 1-247-855-00 1-247-143-00	CARBON CARBON CARBON CARBON CARBON	1K 100 68K 10K 3.3K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/4W	
R1564	1-212-361-00 1-212-361-00 1-246-984-11	METAL OXIDE METAL OXIDE CARBON	1.2 1.2 22	5%. 5% 5%	1W	F F	R1618	1-247-863-00 1-247-847-00 1-247-863-00	CARBON CARBON CARBON	22K 4.7K 22K	5% 5% 5%	1/6W 1/6W 1/6W	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



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Ref.No. Part No.	Description	Remark	Ref.No.	Part No.	Description			Remark
R1620 1-247-843-00	CARBON 3.3K 5% 1/6	1	j	RELA	Y			
R1621 1-247-799-00	CARBON 47 5% 1/8	Y E	0,4501.8	1-515-491-11	DEL KY (DOLLED	,czem dz 3		t filter
R1622 1-247-799-00	CARBON 47 5% 1/8	v F N-≥F (Colo	i I KAPOT∏	71-515-491-11	KELAT (POWER	1. Julius Brown	A.6-821-	i decid
R1623 1-246-982-11 R1624 1-247-855-00	CARBON 10 5% 1/8 CARBON 10K 5% 1/6			SPAI	RK GAP			
R1625 1-247-871-00	CARBON 47K 5% 1/6		SG1501	1-519-063-XX	DISCHARGING	GAP		
R1626 1-246-985-11 R1627 1-247-791-00		N F 6360 N F	! ]	TRA	NSFORMER			
R1627 1-247-791-00 R1631 1-247-153-00	CARBON 8.2K 5% 1/4	W	j		*********************	AGUEN III		1 2172
R1632 1-247-877-00	CARBON 82K 5% 1/6	N.		1-448-019-11 1-421-730-11		FUWER (1874)	MO-FILE	1 3000
R1633 1-247-863-00	CARBON 22K 5% 1/6	M	T1502	1-437-131-00	TRANSFORMER,			
R1634 1-247-863-00	CARBON 22K 5% 1/6		T1503	1-413-059-00	TRANSFORMER,	FERRITE (DE	·T)	
R1635 1-214-775-00	METAL 82K 1% 1/4 CARBON 18K 5% 1/6			THE	RMISTOR			
R1636 1-247-861-00 R1637 1-247-857-00	CARBON 12K 5% 1/6					e. va ozna mistotopa a stronov o	n aalasta, vala farisma.	
		L.P	THP601	<u> </u>	THERMISTER,	POSITIVE		
R1638 1-247-815-00 R1639 1-213-133-00	CARBON 220 5% 1/6 METAL OXIDE 150 5% 1W		*****	*****	******	*****	*****	******
R1640 1-247-817-00	CARBON 270 5% 1/6		İ		U DOADD COM	01 575	,	
R1641 1-247-843-00	CARBON 3.3K 5% 1/6 CARBON 3.9K 5% 1/6		!	*A-1381-024-A	U BOARD, COM			
R1642 1-247-845-00	CARBON 3.9K 5% 1/6	"	i					
R1643 1-247-825-00			!	1-536-889-11 *1-560-984-00			UTPUT	
R1644 1-247-807-00 R1649 1-247-111-00	CARBON 100 5% 1/6 CARBON 150 5% 1/4		1	~1-360-964-00	CONNECTOR (F	L007 541		
R1651 A 1-246-979-11	CARBON 1.2 5% 1/8	W.F. E.B.		CAP	ACITOR			
R1652 1-246-979-11	CARBON 1.2 5% 1/8	W-F 5053	C801	1-123-380-00	ELECT	1MF	20%	50V
R1653 1-206-511-00	METAL OXIDE 10 5% 3W	F	C802	1-123-380-00	ELECT	1MF	20%	50V
R1654 1-213-146-61	METAL OXIDE 1.8K 5% 1W	sc⊥iF agea	C803	1-123-380-00	ELECT	IMF	20% 20%	50V 50V
R1655 1-247-853-00 R1656 A 1-206-733-61	CARBON 8.2K 5% 1/6 METAL OXIDE	w .s. F soas	C804   C805	1-123-380-00 1-123-380-00	ELECT ELECT	1MF 1MF	20%	50V 50V
R1657 1-207-453-00	WIREWOUND 0.15 10% 1/2		İ					<b>50</b>
. 2:	CARBON 1.5K 5% 1/6	1.1	C806   C807	1-123-611-00 1-123-611-00	ELECT	1MF IMF	20% 20%	50V 50V
R1658 1-247-835-00 R1659 1-247-696-11	CARBON 1.5K 5% 1/6 CARBON 47 5% 1/4		C808	1-123-324-00	ELECT	1000MF	20%	167
R1660 1-206-658-00	METAL OXIDE 560 5% 2W	F.	C809	1-123-324-00	ELECT	1000MF	20%	16V
R1661 1-213-141-00	METAL OXIDE 680 5% 1W METAL OXIDE 56 5% 1W	F F	C810	1-123-324-00	ELECT	1000MF	20%	16V
R1662 1-213-128-00	METAL OXIDE 56 5% 1W		C811	1-123-611-00	ELECT	1MF	20%	50V
R1663 1-212-368-00	METAL OXIDE 4.7 5% 1W	F.	J C812	1-123-611-00	ELECT	1MF	20% 20%	50V 50V
R1664 A 1 - 247 - 035 - 11		W F SISI F	C813 C814	1-123-380-00 1-123-380-00	ELECT ELECT	IMF IMF	20%	50V
R1665 1-206-485-00 R1666 1-206-485-00	METAL OXIDE 82 5% 2W	F	C815	1-123-380-00	ELECT	1MF	20%	507
R1667 1-247-756-11	CARBON 2.2K 5% 1/2	W F	   C816	1-123-380-00	ELECT	1MF	20%	50V
VA	RIABLE RESISTOR		C817	1-123-307-00	ELECT	100MF	20%	6.3V
<u> </u>			C818	1-123-318-00	ELECT	33MF	20%	167
RV1501 1-228-723-00	RES, ADJ, CERAMIC CARBON 4.79 RES, ADJ, CERAMIC CARBON 220	•	C819   C820	1-123-308-00 1-102-125-00	ELECT CFRAMIC	220MF 0.0047MF	20% 10%	10V 50V
RV1503 1-228-717-00 RV1504 1-228-727-00	RES. ADJ. CERAMIC CARBON 47K		1 0020					
RV1505 1-228-727-00	RES, ADJ, CERAMIC CARBON 47K		C821	1-102-965-00		39PF 39PF	5% 5%	50V 50V
RV1506 1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C822   C823	1-102-965-00 1-102-965-00	CERAMIC CERAMIC	39PF	5%	50V
RV1507 1-228-727-00	RES, ADJ, CERAMIC CARBON 47K		C824	1-123-820-00	ELECT	. 33MF	20%	16V
RV1508 1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C825	1-123-820-00	ELECT	33MF	20%	16V
RV1509 1-228-727-00 RV1510 1-228-728-00		•	C826	1-123-820-00	ELECT	33MF	20%	16V
RV1511 1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7		C827	1-102-824-00	CERAMIC	470PF 47PF	5% 5%	50V 50V
RV1512 1-228-718-00	RES, ADJ, CERAMIC CARBON 330		C829   C830	1-101-880-00 1-123-333-00		100MF	20%	167
RV1512 1-228-720-00	RES, ADJ, CERAMIC CARBON 1K							

#### V-25XBR 1-724/APM-X3U



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. Part No.	Description			Remark	Ref.No.	Part No.	<u>Description</u>				Remark
1-123-622-00 1-123-318-00 1-123-820-00 1-123-820-00 1-123-318-00	ELECT ELECT ELECT ELECT ELECT	22MF 33MF 33MF 33MF 33MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	Q817 Q818 Q819 Q820 Q821	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2458 SC2458 SC2458			
1-123-380-00 1-123-321-00 1-123-318-00 1-123-356-00 1-119-358-00	ELECT ELECT ELECT ELECT ELECT	1MF 220MF 33MF 10MF 22MF	20% 20% 20% 20%	50V 16V 16V 16V	Q822 Q823 Q824 Q825 Q826	8-729-204-83 8-729-204-83 8-729-245-83 8-729-204-83 8-729-245-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1048G SC2458 SA1048G	R		, F
1-102-125-00 1-123-333-00 1-123-318-00 1-102-125-00 1-123-307-00	CERAMIC ELECT ELECT CERAMIC ELECT	0.0047MF 100MF 33MF 0.0047MF 100MF	10% 20% 20% 10% 20%	50V 16V 16V 50V 6.3V	Q827 Q828 Q829 Q830 Q831	8-729-245-83 8-729-245-83 8-729-204-83 8-729-204-83 8-729-204-83	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC 2458 SA 1048G SA 1048G	R		
DIO	DE				Q832	8-729-204-83			R		
8-719-102-73 8-719-102-73	DIODE RD6.2E	-N1			Q834 Q835	8-729-245-83 8-729-245-83	TRANSISTOR 25	SC 2458		,	,
8-719-102-73	DIODE RD6.2E	-N1				RES	ISTOR				
8-719-911-19	DIODE 1SS119	•			R801 R802			470 56K	5% 5%	1/4W 1/6W	
		,			R803	1-247-873-00	CARBON	56K	5%	1/6W	
8-719-911-19	DIODE 1SS119				R805	1-247-879-00	CARBON	100K	5%	1/6W	
8-719-911-19 8-719-102-73	DIODE 1SS119 DIODE RD6.2E				R806 R807	1-247-873-00 1-247-873-00 1-247-179-00	CARBON CARBON	56K 56K	5% 5%	1/6W 1/6W	
īc					R809	1-246-543-00	CARBON	820K	5%	1/4W	
2 8-759-240-52 3 8-759-900-09 4 8-759-140-53	IC TC4052BP IC TC4052BP IC SN74LS09N IC UPD4053BC IC TC4052BP			•	R811 R812 R813 R814	1-247-115-00 1-247-847-00 1-247-869-00 1-247-847-00	CARBON CARBON CARBON CARBON	220 4.7K 39K 4.7K	5% 5% 5%	1/4W 1/6W 1/6W 1/6W	
* * *	<u>L</u>				R817 R818	1-247-123-00 1-247-131-00	CARBON CARBON	470 1K	5% 5%	1/4W 1/4W	
					R819 R820	1-247-131-00 1-247-901-00	CARBON CARBON	1K 820K	5% 5%	1/4W 1/6W	
		OR 47UH			R821		CARBON				
+	<del></del>				R823	1-247-107-00	CARBON	100	5%	1/4W	
8-729-204-83	TRANSISTOR 2	SA1048GR			R825	1-247-815-00	CARBON	220	5%	1/6W	
8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR 2	SC2458	,		R828	1-247-893-00	CARBON	390K	5%	1/6W	
8-729-245-83					R830	1-246-507-00	CARBON	27K	5%	1/4W	
8-729-245-83	TRANSISTOR 25	SC2458			R831 R832	1-246-507-00 1-246-507-00	CARBON CARBON	27K 27K	5% 5%	1/4W 1/4W	
8-729-245-83 8-729-245-83				·	R833	1-246-507-00	CARBON	27K	5%	1/4W	
8-729-245-83	TRANSISTOR 25	SC2458			K834	1-24/-865-00	LAKBUN	2/K	<b>3</b> 76	T\ OM	
	1-123-318-00 1-123-820-00 1-123-820-00 1-123-318-00 1-123-318-00 1-123-321-00 1-123-318-00 1-123-318-00 1-123-356-00 1-119-358-00 1-102-125-00 1-123-333-00 1-123-318-00 1-102-125-00 1-123-307-00  B-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-102-73 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-759-240-52 8-759-240-52 8-759-240-52 8-759-240-52 8-759-145-58  COI 1-408-235-00 1-408-417-00  TRA 8-729-204-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	1-123-622-00 ELECT 1-123-818-00 ELECT 1-123-820-00 ELECT 1-123-820-00 ELECT 1-123-820-00 ELECT 1-123-318-00 ELECT 1-123-318-00 ELECT 1-123-321-00 ELECT 1-123-321-00 ELECT 1-123-321-00 ELECT 1-123-338-00 ELECT 1-123-338-00 ELECT 1-123-338-00 ELECT 1-123-338-00 ELECT 1-123-338-00 ELECT 1-123-358-00 ELECT 1-102-125-00 CERAMIC 1-123-333-00 ELECT 1-102-125-00 CERAMIC 1-123-307-00 ELECT 1-102-125-00 CERAMIC 1-123-307-00 ELECT 1-102-125-01 DIODE RD6.2E 8-719-102-73 DIODE RD6.2E 8-719-102-73 DIODE RD6.2E 8-719-102-73 DIODE RD6.2E 8-719-102-73 DIODE RD6.2E 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-911-19 DIODE ISS119 8-719-102-73 DIODE RD6.2E  LC LC LS-759-240-52 IC TC4052BP LC TC4052BP	1-123-622-00 ELECT 22MF 1-123-318-00 ELECT 33MF 1-123-820-00 ELECT 33MF 1-123-820-00 ELECT 33MF 1-123-318-00 ELECT 33MF 1-123-318-00 ELECT 33MF 1-123-318-00 ELECT 33MF 1-123-321-00 ELECT 220MF 1-123-318-00 ELECT 10MF 1-123-356-00 ELECT 10MF 1-119-358-00 ELECT 10MF 1-123-336-00 ELECT 10MF 1-123-333-00 ELECT 10MF 1-123-333-00 ELECT 10MF 1-123-333-00 ELECT 10MF 1-123-337-00 ELECT 10MF 1-123-307-00 ELECT 10MF 1-123-318-00 ELECT 10MF 1-123	1-123-622-00 ELECT 22MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-820-00 ELECT 33MF 20% 1-123-820-00 ELECT 33MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-318-00 ELECT 220MF 20% 1-123-318-00 ELECT 220MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-318-00 ELECT 33MF 20% 1-123-318-00 ELECT 10MF 20% 1-123-336-00 ELECT 10MF 20% 1-123-333-00 ELECT 10MF 20% 1-123-333-00 ELECT 10MF 20% 1-123-3318-00 ELECT 33MF 20% 1-102-125-00 CERAMIC 0.0047MF 10% 1-123-3318-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-123-318-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-123-318-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-123-318-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 33MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 20MF 10% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 10MF 20% 1-102-125-00 ELECT 1	1-123-622-00 ELECT 22MF 20% 16V 1-123-318-00 ELECT 33MF 20% 16V 1-123-820-00 ELECT 33MF 20% 16V 1-123-820-00 ELECT 33MF 20% 16V 1-123-318-00 ELECT 33MF 20% 16V 1-123-318-00 ELECT 33MF 20% 16V 1-123-318-00 ELECT 220MF 20% 16V 1-123-318-00 ELECT 220MF 20% 16V 1-123-318-00 ELECT 220MF 20% 16V 1-123-336-00 ELECT 22MF 20% 16V 1-123-338-00 ELECT 10MF 20% 16V 1-123-338-00 ELECT 10MF 20% 16V 1-123-333-00 ELECT 10MF 20% 16V 1-123-333-00 ELECT 100MF 20% 16V 1-123-318-00 ELECT 33MF 20% 16V 1-123-318-00 ELECT 33MF 20% 16V 1-123-318-00 ELECT 100MF 20% 16V 1-123-318-00 ELECT 100MF 20% 6.3V 16V 1-123-307-00 ELECT 100MF 20% 6.3V 16V 1-123-319-00 ELECT 100MF 20% 6.3V 16V 1-123-319-00 ELECT 100MF 20% 6.3V 16V 1-123-319-102-73 DIODE RD6.2E-N1 8-719-102-73 DIODE RD6.2E-N1 8-719-102-73 DIODE RD6.2E-N1 8-719-911-19 DIODE 1SS119 8-719-911-3 DIODE RD6.2E-N1 TC 4052BP 8-759-240-52 IC TC 4052BP 8-759-240-52 IC TC 4052BP 8-759-140-53 IC UPC455BC COLL  1-408-235-00 MICRO INDUCTOR 2.2MMH 1-408-417-00 MICRO INDUCTOR 47UH TRANSISTOR 2SC1048GR 8-729-204-83 TRANSISTOR 2SC1048GR 8-729-245-83 TRANSISTOR 2SC1458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRANSISTOR 2SC2458 8-729-245-83 TRA	1-123-622-00	1-123-622-00 ELECT 22MF 20% 16V Q818 8-729-245-83 1-123-318-00 ELECT 33MF 20% 16V Q818 8-729-245-83 1-123-820-00 ELECT 33MF 20% 16V Q820 8-729-245-83 1-123-820-00 ELECT 33MF 20% 16V Q820 8-729-245-83 1-123-318-00 ELECT 33MF 20% 16V Q820 8-729-245-83 1-123-318-00 ELECT 33MF 20% 16V Q820 8-729-245-83 1-123-318-00 ELECT 33MF 20% 16V Q820 8-729-246-83 1-123-318-00 ELECT 10MF 20% 16V Q821 8-729-246-83 1-123-321-00 ELECT 220MF 20% 16V Q823 8-729-204-83 1-123-318-00 ELECT 33MF 20% 16V Q823 8-729-204-83 1-123-318-00 ELECT 10MF 20% 16V Q826 8-729-204-83 1-123-338-00 ELECT 10MF 20% 16V Q826 8-729-204-83 1-123-338-00 ELECT 10MF 20% 16V Q826 8-729-204-83 1-123-333-00 ELECT 10MF 20% 16V Q826 8-729-245-83 1-123-333-00 ELECT 30MF 20% 16V Q826 8-729-245-83 1-123-333-00 ELECT 30MF 20% 16V Q828 8-729-204-83 1-123-338-00 ELECT 30MF 20% 16V Q828 8-729-204-83 1-123-338-00 ELECT 30MF 20% 16V Q828 8-729-204-83 1-123-339-00 ELECT 30MF 20% 16V Q828 8-729-204-83 1-123-307-00 ELECT 30MF 20% 16V Q828 8-729-204-83 1-123-307-00 ELECT 30MF 20% 6.3V Q831 8-729-204-83 8-719-102-73 DIODE RD6. 2E-N1 Q833 8-729-204-83 8-719-102-73 DIODE RD6. 2E-N1 Q834 8-729-204-83 8-719-102-73 DIODE RD6. 2E-N1 Q835 8-729-204-83 8-719-911-19 DIODE ISS119 R801 1-247-123-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 1-247-873-00 R809 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 TRANSISTOR 2   1-123-330-00   ELECT   33MF   20%   16V   0821   8-729-245-83   TRANSISTOR 2   1-123-3318-00   ELECT   220MF   20%   16V   0822   8-729-204-83   TRANSISTOR 2   1-123-336-00   ELECT   33MF   20%   16V   0824   8-729-204-83   TRANSISTOR 2   1-123-336-00   ELECT   33MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-336-00   ELECT   22MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-336-00   ELECT   22MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   22MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   30MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   30MF   20%   16V   0825   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   30MF   20%   16V   0829   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   30MF   20%   16V   0829   8-729-204-83   TRANSISTOR 2   1-123-333-00   ELECT   30MF   20%   16V   0829   8-729-204-83   TRANSISTOR 2   1-123-307-00   ELECT   100MF   20%   6.3V   0833   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0833   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0834   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0834   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0834   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0836   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0836   8-729-204-83   TRANSISTOR 2   8-719-102-73   DIODE ROB (2E-N1   0836   8-729-204-83   TRANSISTOR 2   8-729-204-83   TRANSISTOR 2   8-729-204-83   TRANSISTOR 2   8-729-204-83   TRANSISTOR 2   8-729-204-83   TRANSISTOR 2   8	1-123-622-00   ELECT   22MF   20%   16V   Q817   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   33MF   20%   16V   Q818   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   33MF   20%   16V   Q818   8-729-245-83   TRANSISTOR 25C2458   1-123-380-00   ELECT   33MF   20%   16V   Q820   8-729-245-83   TRANSISTOR 25C2458   1-123-380-00   ELECT   33MF   20%   16V   Q821   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   10MF   20%   16V   Q821   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   10MF   20%   16V   Q822   8-729-204-83   TRANSISTOR 25C1458   1-123-318-00   ELECT   10MF   20%   16V   Q824   8-729-245-83   TRANSISTOR 25C1458   1-123-318-00   ELECT   10MF   20%   16V   Q826   8-729-245-83   TRANSISTOR 25C1458   1-123-356-00   ELECT   10MF   20%   16V   Q826   8-729-245-83   TRANSISTOR 25C2458   1-123-338-00   ELECT   10MF   20%   16V   Q826   8-729-245-83   TRANSISTOR 25C2458   1-123-338-00   ELECT   10MF   20%   16V   Q826   8-729-245-83   TRANSISTOR 25C2458   1-123-333-00   ELECT   10MF   20%   16V   Q826   8-729-245-83   TRANSISTOR 25C2458   1-123-333-00   ELECT   10MF   20%   16V   Q828   8-729-245-83   TRANSISTOR 25C2458   1-123-3318-00   ELECT   10MF   20%   16V   Q828   8-729-245-83   TRANSISTOR 25C2458   1-123-3318-00   ELECT   10MF   20%   16V   Q828   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   10MF   20%   16V   Q828   8-729-245-83   TRANSISTOR 25C2458   1-123-318-00   ELECT   10MF   20%   16V   Q829   8-729-245-83   TRANSISTOR 25C2458   1-123-319-00   ELECT   10MF   20%   16V   Q829   8-729-245-83   TRANSISTOR 25C2458   1-123-319-00   ELECT   10MF   20%   16V   Q829   8-729-245-83   TRANSISTOR 25C2458   1-123-319-00   ELECT   10MF   20%   16V   Q829   8-729-245-83   TRANSISTOR 25C2458   8-719-102-73   DIODE ROS-ZE-NI   Q835   8-729-245-83   TRANSISTOR 25C2458   8-719-102-73   DIODE ROS-ZE-NI   Q835   8-729-245-83   TRANSISTOR 25C2458   R803   1-247-873-00   CARBON   56K   R803   1-247-873-00   CARBON   10K   R803   1-247-873-00   CARBON	1-123-562-00   ELECT   22MF   20X   16V   0817   8-729-245-83   TRANSISTOR 25C2456   1-123-318-00   ELECT   33MF   20X   16V   0818   8-729-245-83   TRANSISTOR 25C2456   1-123-820-00   ELECT   33MF   20X   16V   0819   8-729-245-83   TRANSISTOR 25C2456   1-123-820-00   ELECT   33MF   20X   16V   0820   8-729-245-83   TRANSISTOR 25C2456   1-123-820-00   ELECT   33MF   20X   16V   0820   8-729-245-83   TRANSISTOR 25C2456   1-123-820-00   ELECT   33MF   20X   16V   0820   8-729-245-83   TRANSISTOR 25C2456   1-123-318-00   ELECT   220MF   20X   16V   0821   8-729-245-83   TRANSISTOR 25C2456   1-123-318-00   ELECT   220MF   20X   16V   0824   8-729-245-83   TRANSISTOR 25C2456   1-123-318-00   ELECT   10MF   20X   16V   0826   8-729-245-83   TRANSISTOR 25C2456   1-123-333-00   ELECT   10MF   20X   16V   0826   8-729-245-83   TRANSISTOR 25C2456   1-123-333-00   ELECT   10MF   20X   16V   0826   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0826   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0826   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0827   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0828   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0829   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0829   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0829   8-729-245-83   TRANSISTOR 25C2456   1-123-331-00   ELECT   10MF   20X   16V   0829   8-729-245-83   TRANSISTOR 25C2456   1-123-311-00   ELECT   10MF   20X   16V   0829   8-729-245-83   TRANSISTOR 25C2456   1-123-311-00   ELECT   10MF   20X   6-3V   0829   8-729-245-83   TRANSISTOR 25C2456   8-719-102-73   DIODE 806-2E-M1   0839   8-729-245-83   TRANSISTOR 25C2456   8-719-102-73   DIODE 806-2E-M1   0839   8-729-245-83   TRANSISTOR 25C2456   8-719-102-73   DIODE 806-2E-M1   0839   8-729-245-83   TRANSISTOR 25C2456   8-719-102-73   DIODE 806-2E-	1-123-802-00   ELECT   32MF   20X   16V   0817   8-729-245-83   TRANSISTOR 25C2458   1-123-218-00   ELECT   33MF   20X   16V   0818   8-729-245-83   TRANSISTOR 25C2458   1-123-802-00   ELECT   33MF   20X   16V   0819   8-729-245-83   TRANSISTOR 25C2458   1-123-802-00   ELECT   33MF   20X   16V   0820   8-729-245-83   TRANSISTOR 25C2458   1-123-380-00   ELECT   33MF   20X   16V   0820   8-729-245-83   TRANSISTOR 25C2458   1-123-380-00   ELECT   220MF   20X   16V   0823   8-729-245-83   TRANSISTOR 25C2458   1-123-380-00   ELECT   32MF   20X   16V   0823   8-729-245-83   TRANSISTOR 25C2458   1-123-316-00   ELECT   33MF   20X   16V   0823   8-729-245-83   TRANSISTOR 25C2458   1-123-316-00   ELECT   33MF   20X   16V   0824   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0825   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0825   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0828   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0828   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0828   8-729-245-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   100MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   100MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   100MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   100MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   1-123-330-00   ELECT   33MF   20X   16V   0829   8-729-246-83   TRANSISTOR 25C2458   8-739-240-32   TRANSISTOR 25C2458   8-739-240-32   TRANSISTOR 25C2458   8-739-240-32   TRANSISTOR 25C2458   8-739-240-32   TRANSISTOR 25C2458   8-739-240-32   TRANSISTOR

#### KV-25XBI RM-724/APM-X3



												W-M-MAN TO SE
Ref.No. Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
						i					•	<del></del>
R835 1-247-893-00	CARBON	390K		1/6W		R 895	1-247-155-00	CARBON	10K	5%	1/4W	•
R837 1-247-129-00	CARBON	820	5%	1/4W		R896	1-247-155-00	CARBON	10K	5%	1/4W	
R838 1-247-895-00	CARBON	470K	5%	1/6W		R897	1-247-855-00	CARBON	10K	5%	1/6W	
R839 1-246-537-00	CARBON	470K	5%	1/4W		R898	1-247-855-00	CARBON	10K	5%	1/6W	
R840 1-247-104-00	CARBON	75	5%	1/4W		R899	1-247-115-00	CARBON	220	5%	1/4W	
						R900	1-247-107-00	CARBON	100	5%	1/4W	
R841 1-247-149-00	CARBON	5.6K	5%	1/4W		R901	1-247-131-00	CARBON	1K	5%	1/4W	
R842 1-247-149-00	CARBON	5.6K	5%	1/4W		2000	1 047 121 00	040000	932		4 7 403	
R843 1-247-155-00	CARBON	10K	5%	1/4W		R902	1-247-131-00	CARBON	1K	5%	1/4W	
R844 1-247-155-00	CARBON	10K	5%	1/4W		R903	1-247-105-00	CARBON	82	5%	1/4W	
R845 1-247-895-00	CARBON	470K	5%	1/6W		J R904	1-247-105-00	CARBON	82	5%	1/4W	
		75	ei ar	4 2 414		R905	1-247-105-00	CARBON	82	5%	1/4W	
R846 1-247-104-00		75	5%	1/4W		R906	1-247-115-00	CARBON	220	5%	1/4W	
R847 1-246-507-00	CARBON	27K	5%	1/4W		! 2000	1 047 001 00	CADDON	1.02	Ėw	1 720	
R848 1-246-507-00	CARBON	27K	5%	1/4W		R908	1-247-861-00	CARBON	18K	5%	1/6W	,
R849 1-247-131-00	CARBON	1K	5% 5%	1/4W		R909	1-247-867-00	CARBON	33K	5%	-,	, -
R850 1-247-131-00	CARBON	1K	5%	1/4W		R910   R911	1-247-861-00	CARBON	18K	5%	1/6W	
0051 1 047 155 00	CARRON	100	ė¥ .	1/4W		R912	1-247-879-00 1-247-879-00	CARBON CARBON	100K 100K	5% 5%	1/6W 1/6W	
R851 1-247-155-00	CARBON	10K	5% 5%			1 1912	1-247-079-00	CARDUN	1000	3,6	1/OW	
R852 1-247-863-00	CARBON	22K 390	5%	1/6W 1/4W		R913	1-247-847-00	CARBON	4.7K	5%	1/6W	
R853 1-246-463-00 R854 1-247-104-00	CARBON	75	5%	1/4W		R914	1-247-847-00		4.7K	5%	1/6W	
	CARBON	4.7K	5%	1/4W		R915	1-247-823-00	CARBON	470	5%	1/6W	ŕ
R855 1-247-147-00	CARDUN	4.71	376	1/4W		R916	1-247-823-00	CARBON	470	5%	1/6W	
R856 1-247-131-00	CADRON	1K	5%	1/4W		R917	1-247-827-00	CARBON	680	5%	1/6W	
R856 1-247-131-00 R857 1-247-161-00		18K	5%	1/4W		1 "51"	1-247-027-00	CARDON	000	J.	17011	
R858 1-247-877-00	1. 2. 2	82K	5%	1/6W		R918	1-247-835-00	CARBON	1.5K	5%	1/6W	
R859 1-247-831-00	CARBON	1K	5%	1/6W		R919	1-247-855-00	CARBON	10K	5%	1/6W	are engineering
R860 1-247-115-00		220	5%	1/4W		R921	1-247-831-00	CARBON	1K	5%	1/6W	
K600 1-247-115-00	CARDON	220	5 /6	1/ 411		R922	1-247-131-00	CARBON	îĸ	5%	1/4W	
R861 1-247-147-00	CARBON	4.7K	5%	1/4W	т	R923	1-247-871-00	CARBON	47K	5%	1/6W	
R862 1-247-831-00	CARBON	1K	5%	1/6W		1		•			-,	
R863 1-247-835-00		1.5K	5%	1/6W		R924	1-247-871-00	CARBON	47K	5%	1/6W	
R864 1-247-115-00	CARBON	220	5%	1/4W		R925	1-247-893-00	CARBON	390K		1/6W	
R865 1-247-115-00		220	5%	1/4W		R926	1-247-855-00	CARBON	10K //	5%	1/6W	
	•			-,		i R928	1-247-831-00	CARBON	1K	5%	1/6W	
R866 1-247-835-00	CARBON	1.5K	5%	1/6W		R929	1-247-131-00	CARBON	1K	5%	1/4W	
R867 1-247-835-00	CARBON	1.5K	5%	1/6W		İ					· . *	
R868 1-247-831-00	CARBON	1K	5%	1/6W		į R930	1-247-131-00	CARBON	1K	5%	1/4W	
R869 1-247-115-00	CARBON	220	5%	1/4W		j R931	1-247-131-00	CARBON	1K	5%	1/4W	•
R870 1-247-115-00	CARBON	220	5%	1/4W		į R932	1-247-879-00	CARBON	100K	5%	1/6W	\$ °
						R934	1-247-879-00	CARBON	100K	5%	1/6W	
R872 1-247-115-00	CARBON	220	5%	1/4W		R938	1-247-143-00	CARBON	3.3K	5%	1/4W	
R873 1-247-115-00	CARBON	220	5%	1/4W		1		***	متعادي المالية	and a		
R874 1-247-823-00		470	5%	1/6W		R939	1-247-837-00	CARBON	1.8K	5%	1/6W	*
R875 1-249-459-11	CARBON	12K	5%	1/4W	•	R940	1-247-879-00	CARBON	100K	5%	1/6W	
R876 1-247-829-00	CARBON	820	5%	1/6W		R941	1-247-131-00	CARBON	1K	5%	1/4W	
		6-2	50'			R942	1-247-104-00	CARBON	75	5%	1/4W	
R879 1-247-823-00	CARBON	470	5%	1/6W		R943	1-247-104-00	CARBON	75	5%	1/4W	
R881 1-247-887-00	CARBON	220K	5% 5%	1/6W		DOM	1 247 304 00	CADDON	76	EV	1.7367	=
R882 1-247-887-00	CARBON	220K		1/6W		R944	1-247-104-00	CARBON	75 1K	5%	1/4W	
R883 1-247-855-00	CARBON	10K	5%	1/6W		R947	1-247-131-00			5% 5%	1/4W	
R884 1-247-855-00	CARBON	10K	5%	1/6W			1-247-131-00		1K		1/4W	
n 00E 1 24 7 0E2 00	CADRON	200	54	1/60		R950   R951	1-247-131-00 1-246-463-25	CARBON CARBON	1K 390	5% 5%	1/4W 1/4W	4
R885 1-247-863-00 R886 1-247-163-00		22K 22K	5% 5%	1/6W 1/4W		1 1/227	7-540-400-50	CARDOIT	550	- A	±/ ¬n	
R886 1-247-163-00 R887 1-247-863-00		22K	5%	1/4W 1/6W		R952 -	1-246-463-25	CARBON	390	5%	1/4W	
R888 1-247-863-00		22K	5%	1/6W	*	R955	1-246-535-00		390K		1/4W	4
R889 1-247-831-00		1K	5%	1/6W		R956	1-247-143-00	CARBON		5%	1/4W	•
1-247-031-00	UNITOUT	214	- ra	1, 00		R957	1-247-815-00	CARBON	220	5%	1/6W	
R891 1-247-103-00	CARBON	68	5%	1/4W		R958	1-247-143-00	CARBON	3.3K		1/4W	
R892 1-247-103-00		100	5%	1/4W		1						
R893 1-247-115-00		220	5%	1/4W		R959	1-247-815-00	CARBON	220	5%	1/6W	
R894 1-247-123-00		470	5%	1/4W		•						
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#### (V-25XBR M-724/APM-X3U



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Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
RV801 RV802	1-228-848-00 1-228-490-00	RES, VAR, CAI RES, VAR, CAI	- RBON 10K		÷	C1125 C1126 C1127	1-123-380-00 1-123-332-00 1-123-380-00 1-123-356-00 1-106-176-00	ELECT ELECT ELECT ELECT MYLAR	1MF 47MF 1MF 10MF 0.0015MF	20% 20% 20% 20% 10%	50V 16V 50V 16V 100V
	SWI	TCH				C1129	1-106-176-00	MYLAR	0.0015MF	10%	100V
\$801 \$802	1-553-651-00 1-553-651-00					C1130   C1131   C1132	1-123-380-00 1-131-345-00 1-123-356-00 1-123-318-00	ELECT TANTALUM ELECT ELECT	1MF 0.47MF 10MF 33MF	20% 10% 20% 20%	50V 35V 16V 16V
	<del></del>	2. 7				İ		• •			**
U1 U2 U3 U4 U5	*1-564-443-11 *1-564-444-11 *1-564-452-41 *1-564-440-11 *1-564-440-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	8P 4P 4P		C1135 C1136 C1137	1-130-301-00 1-123-323-00 1-123-332-00 1-123-332-00 1-123-308-00	FILM ELECT ELECT ELECT ELECT	0.015MF 470MF 47MF 47MF 220MF	5% 20% 20% 20% 20%	100V 16V 16V 16V 10V
U6 U7 U8 U9 U10	*1-564-441-11 *1-564-442-11 *1-564-442-11 *1-564-453-11 *1-564-353-00	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR (2.5MM) TOR (2.5MM) TOR (2.5MM)	6P 6P 5P		C1150 C1151 C1152	1-123-381-00 1-123-381-00 1-123-369-00 1-123-369-00 1-102-074-00	ELECT ELECT ELECT ELECT CERAMIC	2.2MF 2.2MF 4.7MF 4.7MF 0.001MF	20% 20% 20% 20% 10%	50V 50V 25V 25V 50V
U11 U13	*1-564-453-11 *1-564-353-00	•	TOR (2.5MM)	2P		C1155	1-102-074-00 1-102-074-00 1-102-074-00 1-123-323-00	CERAMIC CERAMIC CERAMIC ELECT	0.001MF 0.001MF 0.001MF 470MF	10% 10% 10% 20%	50V 50V 50V 16V
*****	,						1-106-212-00	MYLAR	0.047MF	10%	100V
	*A-1386-014-A 4-309-378-00	*****	PLETE *****			C1162	1-106-172-00 1-106-172-00 1-106-212-00	MYLAR MYLAR MYLAR	0.001MF 0.001MF 0.047MF	10% 10% 10%	100y 100y 100y
						C1164	1-123-356-00 1-123-380-00	ELECT ELECT	10MF 1MF	20% 20%	16V 50V
		ACITOR	2015	00%	1.00	İ	,	,			
C1101 C1102 C1103 C1104 C1105	1-123-356-00 1-123-318-00 1-123-356-00	ELECT ELECT ELECT ELECT GERAMIC	33MF 10MF 33MF 10MF 0.001MF	20% 20% 20% 20% 10%	16V 16V 16V 16V 50V	C1167 C1168 C1169	1-102-824-00 1-123-380-00 1-102-824-00 1-123-356-00 1-123-360-00	GERAMIC ELECT CERAMIC ELECT ELECT	470PF 1MF 470PF 10MF 100MF	5% 20% 5% 20% 20%	50V 50V 50V 16V 50V
C1106 C1107 C1108 C1109 C1110	1-123-356-00 1-102-074-00 1-106-196-00	ELECT ELECT GERAMIC MYLAR ELECT	10MF 10MF 0.001MF 0.01MF 1MF	20% 20% 10% 10% 20%	16V 16V 50V 100V 50V	C1172 C1174 C1175	1-124-607-11 1-123-346-00 1-106-208-00 1-123-364-00 1-123-359-00	ELECT ELECT MYLAR ELECT ELECT	2200MF 220MF 0.033MF 1000MF 47MF	20% 20% 10% 20% 20%	50V 35V 100V 50V 35V
C1113 C1114	1-106-196-00	MYLAR MYLAR ELECT ELECT FILM	0.047MF 0.01MF 3.3MF 1MF 0.0012MF	10% 10% 20% 20%	100V 100V 50V 50V 100V	C1178 C1179 C1180	1-123-359-00 1-123-364-00	MYLAR ELECT	0.047MF 0.047MF 47MF 1000MF 0.033MF	10% 10% 20% 20% 10%	100V 100V 35V 50V 100V
C1116 C1117 C1118 C1119 C1120	1-123-321-00 1-106-172-00	ELECT ELECT ELECT MYLAR MYLAR	1MF 1MF 220MF 0.001MF 0.0047MF	20% 20% 20% 10% 10%	50V 50V 16V 100V 100V	C1184 C1185 C1186	1-123-346-00 1-123-356-00 1-123-380-00 1-123-380-00 1-123-380-00	ELECT ELECT ELECT ELECT ELECT	220MF 10MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	35 V 16 V 50 V 50 V 50 V
C1121 C1122 C1123		GERAMIC ELECT ELECT	330PF 4.7MF 1MF	10% 20% 20%	50V 25V 50V	C1188 C1189 C1190	1-123-380-00 1-102-074-00 1-123-333-00	ELECT CERAMIC ELECT	1MF 0.001MF 100MF	20% 10% 20%	50V 50V 16V

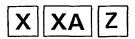


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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description			,	Remar
C1200 1-130-281-00 C1201 1-131-343-00 C1202 1-131-343-00 C1203 1-130-281-00 C1204 1-131-345-00	FILM TANTALUM TANTALUM FILM TANTALUM	0.0022MF 0.22MF 0.22MF 0.0022MF 0.47MF	5% 10% 10% 5% 10%	100V 35V 35V 100V 35V	Q1107	8-729-245-83 8-729-245-83 8-729-204-83 8-729-245-83 8-729-245-83	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SC 2458 2SA 1048GR 2SC 2458	ł		
C1205 1-130-309-00 C1206 1-130-285-00 C1207 1-130-285-00 C1208 1-130-285-00 C1209 1-130-285-00	FILM FILM FILM FILM FILM	0.033MF 0.0033MF 0.0033MF 0.0033MF 0.0033MF	5% 5% 5% 5% 5%	100V 100V 100V 100V 100V	01112 01113 01114	8-729-204-83 8-729-204-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1048GR 2SC2458 2SC2458			
C1210 1-131-371-00 C1211 1-123-332-00 C1212 1-102-125-00 C1213 1-130-297-00 C1214 1-123-586-00	TANTALUM ELECT CERAMIC FILM ELECT	10MF 47MF 0.0047MF 0.01MF 0.1MF	10% 20% 10% 5% 20%	16V 16V 50V 100V 50V	Q1117 Q1118 Q1119	8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR	2SC 2458 2SC 2458 2SC 2458			
C1215 1-123-380-00 C1216 1-130-281-00 C1217 1-123-380-00 C1218 1-123-380-00 C1219 1-123-382-00	ELECT FILM ELECT ELECT ELECT	1MF 0.0022MF 1MF 1MF 3.3MF	20% 5% 20% 20% 20%	50V 100V 50V 50V 50V	Q1122 Q1123	8-729-378-84 8-729-245-83 8-729-245-83 8-729-245-83	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2458 2SC2458			
	EL COT	10MF	20%	16V		KES	ISTOR				
C1220 1-123-356-00 C1221 1-102-125-00 C1222 1-123-380-00 C1223 1-131-368-00 C1224 1-123-369-00	ELECT CERAMIC ELECT TANTALUM ELECT	0.0047MF 1MF 3.3MF 4.7MF	10% 20% 10% 20%	50V 50V 16V 50V	R1102	1-247-831-00 1-247-831-00 1-247-867-00 1-247-819-00 1-247-837-00	CARBON	1K 1K 33K 330 1.8K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
C1225 1-123-356-00	ELECT	10MF	20%	16V	11100	1 047 047 00	CARBON	4.7K	E4	1/6W	
DIO	nDF				I R1107	1-247-847-00 1-247-867-00		33K	5%	1/6W	
	<del></del>				R1108	1-247-851-00	CARBON	6.8K		1/6W	
D1101 8-719-911-19 D1102 8-719-911-19 D1103 8-719-911-19 D1104 8-719-911-19	DIODE 188119	)			R1110	1-247-859-00 1-247-859-00 1-247-849-00 1-247-859-00	CARBON CARBON CARBON CARBON	15K 15K 5.6K 15K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
D1105 8-719-102-74	DIODE ROOTE	112			R1113	1-247-839-00	CARBON	2.2K		1/6W	
D1106 8-719-102-74	DIODE RD6.2E	E-N2			R1114   R1115	1-247-881-00 1-247-863-00	CARBON CARBON	120K 22K	5% 5%	1/6W 1/6W	
<u>IC</u>					1	1-247-871-00		47K	5%	1/6W	
IC1101 8-759-800-18	IC LA3375	; ;			R1117	1-247-853-00 1-247-866-00	CARBON	8.2K 30K		1/6W 1/6W	
iC1102 8-759-271-33 iC1103 8-759-145-58	IC UPC4558C							4.7K	5%	1/6W	
101104 8-759-140-66	IC UPD4066B0	;			R1120	1-247-891-00	CARBON	330K	5%	1/6W	
IC1105 8-759-400-88	IC AN6291				R1121	1-247-879-00	CARBON	100K		1/6W	
IC1106 8-759-140-66	IC UPD406680	:			R1122	1-247-852-00 1-247-831-00	CARBON	7.5K 1K	5% 5%	1/6W 1/6W	
101108 8-749-943-62	IC STK-4362				R1124	1-247-857-00	CARBON	12K	5%	1/6W	
IC1109 8-759-145-58	IC UPC 4558C				R1125	1-247-855-00	CARBON	10K	5%	1/6W	
TRA	ANSISTOR					1-247-855-00 1-247-879-00		10K 100K	5% 5%	1/6W 1/6W	
Q1101 8-729-245-83	TRANSISTOR 2	2SC2458			R1128	1-215-433-00	METAL	3.3K	1%	1/6W	
01102 8-729-245-83	TRANSISTOR 2	2SC 2458				1-215-433-00 1-247-855-00		3.3K 10K	1% 5%	1/6W 1/6W	
01103 8-729-245-83 01104 8-729-204-83	TRANSISTOR 2	2\$A1048GR			İ						
01105 8-729-245-83	TRANSISTOR	2SC2458			R1132	1-247-827-00 1-247-855-00	CARBON CARBON	680 10K	5% 5%	1/6W 1/6W	
					,						

#### KV-25XBR RM-724/APM-X3U



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Ref.No. Part No.	Description				Remark	Ref.No.	Part No.	Description			:	Remark
R1134 1-247-855-00 R1135 1-247-843-00 R1136 1-247-803-00 R1137 1-247-835-00 R1138 1-247-819-00	CARBON CARBON CARBON CARBON CARBON	10K 3.3K 68 1.5K 330	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1191 R1192 R1193	1-247-811-00 1-247-823-00 1-247-855-00 1-247-855-00 1-247-855-00	CARBON CARBON CARBON CARBON CARBON	150 470 10K 10K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1139 1-247-861-00 R1140 1-247-851-00 R1141 1-247-871-00 R1142 1-247-871-00 R1143 1-247-871-00	CARBON CARBON CARBON CARBON CARBON	18K 6.8K 47K 47K 47K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	,	R1196 R1197 R1199	1-247-879-00 1-247-879-00 1-247-855-00 1-247-879-00 1-247-879-00		100K 100K 10K 100K 100K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1144 1-247-843-00 R1145 1-247-143-00 R1146 1-247-851-00 R1147 1-247-861-00 R1148 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	3.3K 3.3K 6.8K 18K 4.7K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R1204 R1205 R1206	1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 1K 1K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1149 1-247-863-00 R1150 1-215-486-00 R1151 1-214-785-00 R1152 1-215-469-00 R1153 1-214-777-00	CARBON METAL METAL METAL METAL	22K 510K 220K 100K 100K	5% 1% 1% 1% 1%	1/6W 1/6W 1/4W 1/6W 1/4W		R1210 R1211 R1212	1-247-865-00 1-247-847-00 1-247-879-00 1-247-847-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	27K 4.7K 100K 4.7K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1154 1-214-785-00 R1155 1-215-493-00 R1156 1-215-493-00 R1157 1-246-529-00 R1158 1-247-879-00	METAL METAL METAL CARBON CARBON	220K 1M 1M 220K 100K	1% 1% 1% 5% 5%	1/4W 1/6W 1/6W 1/4W 1/6W		R1215   R1216   R12172	1-247-879-00 1-247-881-00 1-247-893-00 1-211-427-11 1-247-825-00	CARBON CARBON CARBON CARBON CARBON	100K 120K 390K / 100 % 560	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/8W 1/6W	F 855
R1159 1-247-886-00 R1160 1-247-115-00 R1161 1-247-863-00 R1162 1-247-847-00 R1163 1-247-851-00	CARBON CARBON CARBON GARBON CARBON	200K 220 22K 4.7K 6.8K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R1221   R12222   R1223	1-247-859-00 1-247-861-00 1-211-401-11 1-211-401-00 1-247-831-00	CARBON CARBON CARBON CARBON CARBON	15K 18K 4.7 4.7 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/8W 1/8W 1/6W	F F
R1164 1-247-861-00 R1165 1-247-848-00 R1166 1-247-835-00 R1167 1-247-833-00 R1168 1-247-847-00	CARBON CARBON CARBON GARBON CARBON	18K 5.1K 1.5K 1.2K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1226 R1227 R1229	1-247-161-00 1-247-859-00 1-247-831-00 1-247-825-00 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	18K 15K 1K 560 100K	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	
R1170 1-247-849-00 R1171 1-247-026-11 R1172 1-247-823-00 R1173 1-247-841-00 R1174 1-247-829-00	CARBON CARBON CARBON CARBON CARBON	5.6K 5.6 470 2.7K 820	5% 5%	1/6W 1/8W 1/6W 1/6W 1/6W	F	R1233 R1234	1-247-831-00 1-247-831-00 1-247-831-00 1-247-831-00 1-247-879-00	CARBON CARBON CARBON CARBON CARBON	1K 1K 1K 1K 1OOK	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1175 1-249-421-11 R1176 1-247-815-00 R1177 1-247-863-00 R1180 1-247-855-00 R1181 1-247-847-00	CARBON CARBON CARBON CARBON CARBON	2.2K 220 22K 10K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1245 R1246	1-247-855-00 1-247-862-00 1-247-867-00 1-247-843-00 1-247-885-00	CARBON CARBON CARBON CARBON CARBON	10K 20K 33K 3.3K 180K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1182 1-247-838-00 R1183 1-247-838-00 R1184 1-247-829-00 R1185 1-247-829-00 R1186 1-247-838-00	CARBON CARBON CARBON CARBON GARBON	2K 2K 820 820 2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1249 R1250 R1251	1-247-885-00 1-247-847-00 1-247-847-00 1-247-863-00 1-247-843-00	CARBON CARBON CARBON	180K 4.7K 4.7K 22K 3.3K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R1187 1-247-879-00 R1188 1-247-855-00 R1189 1-247-855-00	CARBON CARBON CARBON	100K 10K 10K	5% 5% 5%	1/6W 1/6W 1/6W	ü	R1254	1-247-865-00 1-247-847-00 1-247-847-00	CARBON	27K 4.7K 4.7K		1/6W 1/6W 1/6W	



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Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description		Remark
R1256 1-247-843-00	CARBON	3.3K 5				DIO	DE		
R1257 1-247-811-00 R1258 1-247-843-00	CARBON CARBON	3.3K 5	% 1/6W		D1701	8-719-911-19	DIODE 155119		
R1259 1-247-869-00 R1260 1-247-893-00	CARBON CARBON	39K 5 390K 5				COI	<u>L</u>		
R1261 1-247-885-00	CARBON	180K 5			L1701	1-408-242-00	MICRO INDUCTOR 10M	ІМН	
R1262 1-247-844-00 R1263 1-247-893-00	CARBON CARBON	3.6K 5 390K 5			1	TRA	NSISTOR		
R1288 1-247-848-00 R1289 1-247-885-00	CARBON CARBON	5.1K 5 180K 5			Q1701	8-729-245-83	TRANSISTOR 2SC2458	3	
R1290 1-247-811-00	CARBON	150 5	% 1/6W		Q1702	8-729-204-83	TRANSISTOR 25A1048	BGR	
R1291 1-247-843-00 R1292 1-247-831-00	CARBON CARBON	3.3K 5	% 1/6W		į 1	RES	ISTOR		
R1293 1-247-844-00	CARBON	3.6K 5	% 1/6W			1-249-421-11		5% 1/6 5% 1/6	
R1294 1-247-887-00	CARBON	220K 5				1-247-855-00 1-247-847-00		5% 1/6 5% 1/6	
R1295 1-215-421-00		1K 1	% 1/6W			CON	INECTOR		
<del></del> -	RIABLE RESISTOR	-			XA1	*1-564-440-11	PLUG, CONNECTOR (	2.5MM) 4P	•
RV1101 1-228-724-00 RV1102 1-228-723-00	RES, ADJ, CE	RAMIC CAR	BON 4.7K		***	*****	******	*****	*****
RV1103 1-228-720-00 RV1104 1-228-722-00 RV1106 1-228-724-00	RES, ADJ, CER RES, ADJ, CER RES, ADJ, CER	RAMIC CAR	BON 3.3K			*1-613-413-11	Z BOARD		
RV1107 1-228-721-00	RES, ADJ, CE					JAC	<u>:K</u>		
RV1108 1-228-721-00 RV1109 1-228-725-00	RES, ADJ, CEI RES, ADJ, CEI				J001	1-507-806-00	JACK		
RV1110 1-228-724-00	RES, ADJ, CEI	RAMIC CAR	BON 10K		J002	1-507-940-21 1-507-940-21			
<u>TR</u>	INSFORMER					RES	ISTOR		
T1101 1-235-386-11 T1102 1-235-387-11	FILTER, BAND	PASS			   R001	1-244-851-51	CARBON 120	5% 1/:	2W
T1103 1-235-400-11 T1104 1-231-726-00	FILTER, LOW I	PASS (L.P	.F)		R002	1-244-851-51	CARBON 120	5% 1/:	2 <b>W</b>
T1105 1-231-726-00						CON	NECTOR		
cor	INECTOR						PLUG, CONNECTOR (2) PLUG, CONNECTOR (2)		
X1 *1-564-353-00 X2 *1-564-354-00					Z3	*1-564-440-11	PLUG, CONNECTOR (2) PLUG, CONNECTOR (2)	2.5MM) 4P	
X3 *1-508-765-00	3P PLUG (M)				İ		,		
X4 *1-564-440-11 X5 *1-564-442-11	PLUG, CONNECT						******		********
x6 *1-564-443-11	PLUG, CONNECT	TOR (2.5M	M) 7P		<u> </u>		CELLANEOUS		
x7 *1-564-440-11	PLUG, CONNECT	TOR (2.5M	M) 4P		] 	.1-230-212-11	RESISTOR ASSY, HIG	H-VOLTAGE	
*******	******	******	******	*****	1 4	1-417-125-11	SELECTOR, ANTÉNNA DEFLECTION YOKE (S		
*1-614-651-11	XA BOARD				 	1-452-032-00		ø	ø
CAF	ACITOR					1-452-146-21	MAGNET, BMC CRT NECK ASSY (NA:	021	emistrana 1960 to is tras-
C1701 1-102-116-00		680PF	10%	507	1	*1-557-056-00	CABLE, P-P		
C1702 1-102-117-00 C1703 1-123-356-00	CERAMIC ELECT	820PF 10MF	10% 20%	50V 16V			CORD, POWER		
C1704 1-123-356-00	ELECT	10MF	20%	167	I L906 ∆	. 1-426-059-31	COIL, DEGAUSSING	ETPERITED T	PERSONAL PROPERTY.

#### KV-25XBR RM-724/APM-X3U

Ref.No. Part	No.	Description	Remark
T901 A.1-439	-339-12	COIL, DEGAUSSING TRANSFORMER ASSY, FLYBACK CRT (A64JKJ10X)	grada teksee

### ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-681-A 1-513-379-00 4-337-844-00 4-374-194-01 4-374-195-07	COMMANDER ASSY(RM-724) CONVERTER (EAC-25) BAG, PROTECTION CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY)	
4-374-402-01 4-482-023-21 4-491-213-22 4-374-321-01 4-374-324-01	SHEET, CORRUGATED FIBERBOARD MANUAL, INSTRUCTION INSTRUCTION INDIVIDUAL CARTON (FOR BEIGE) INDIVIDUAL CARTON (FOR PLUM)	

# TRINITRON® COLOR TV KV-25XBR/RM-724

### US Model

Chassis No. SCC-595B-A

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CON-

NECTED TO THE AC POWER LINE

## SAFETY-RELATED COMPONENT WARNING !!

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PRO-COMPONENTS IDENTIFIED BY SHADING AND MARK CEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

### Note:

- All Capacitors are in  $\mu {\rm F}$  unless otherwise noted, pF:  $\mu {\rm F}$  50 WV or less are not indicated except for electrolytics. All resistors are in ohms. 1/6W unless otherwise noted.

noted.

- $k\Omega$  = 1000 $\Omega$ ,  $M\Omega$  = 1000 $k\Omega$ Standard for the M Board is 1/4W:
- : nonflamable resistor.
- : internal component. ☐ : panel designation.
- All variable and adjustable resistors have characteristics curve B, unless otherwise noted.

tion tolerances.

: adjustment for repair.

---: B - bus. - : B + bus.

- been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value The components indentified by IN in this manual have originally used.
- the necessary adjustments indicated. If results do not meet the specified value, change the component identified and repeat the adjustment until the specified When replacing components identified by þ,

value is achieved.

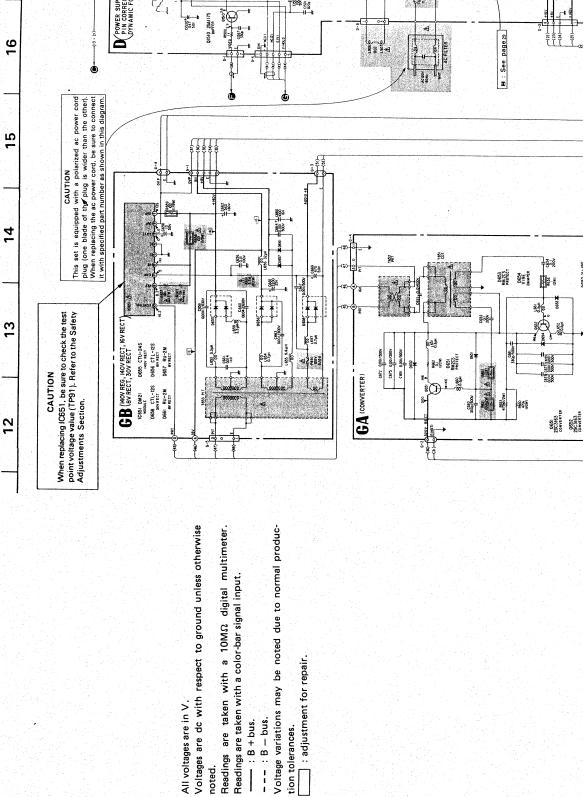
(Refer to R1531, R1534, R1535, R1556, R1578 adjustment on page 29.)

When replacing the part in below table, be sure to perform the related adjustment.

Adjustment (👿 )	R1531	R1534, R1535	R1556	R1578
Part replaced ( 🔽 )	D1502, D1507, IC1501 Q1502, Q1503, R427 R431, R437, R438 R1512, R1519, R1529 R1530, R1531, R1532 R1533, R1543, R1544	D1508, D1509, IC301 IC401, Q1506, R339 R340, R348, R436 R1534, R1535, R1537 R1538, R1539, R1561 R1576	C1663, C1664, C1667 C1675, IC1502, L1514 R1556, R1570, R1635 R1636, R1638, RV1511 FBT, DY	C1519, C1663, C1664 C1667, C1675, IC1501 L1514, R1522, R1578 R1579, R1580, R1581 R1582, R1583, RV1503 FBT, DY

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08.204 04.74 504 QISIO 2SALI75 BUFFER

POWER SUPPLY, H.DEF PIN CORRECTION, DYN DYNAMIC FOCUS

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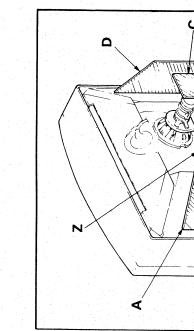
9605 -400 -400 -400 -400

D609 SIV

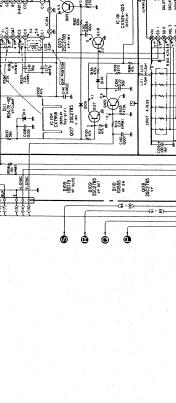
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D652 V-19E



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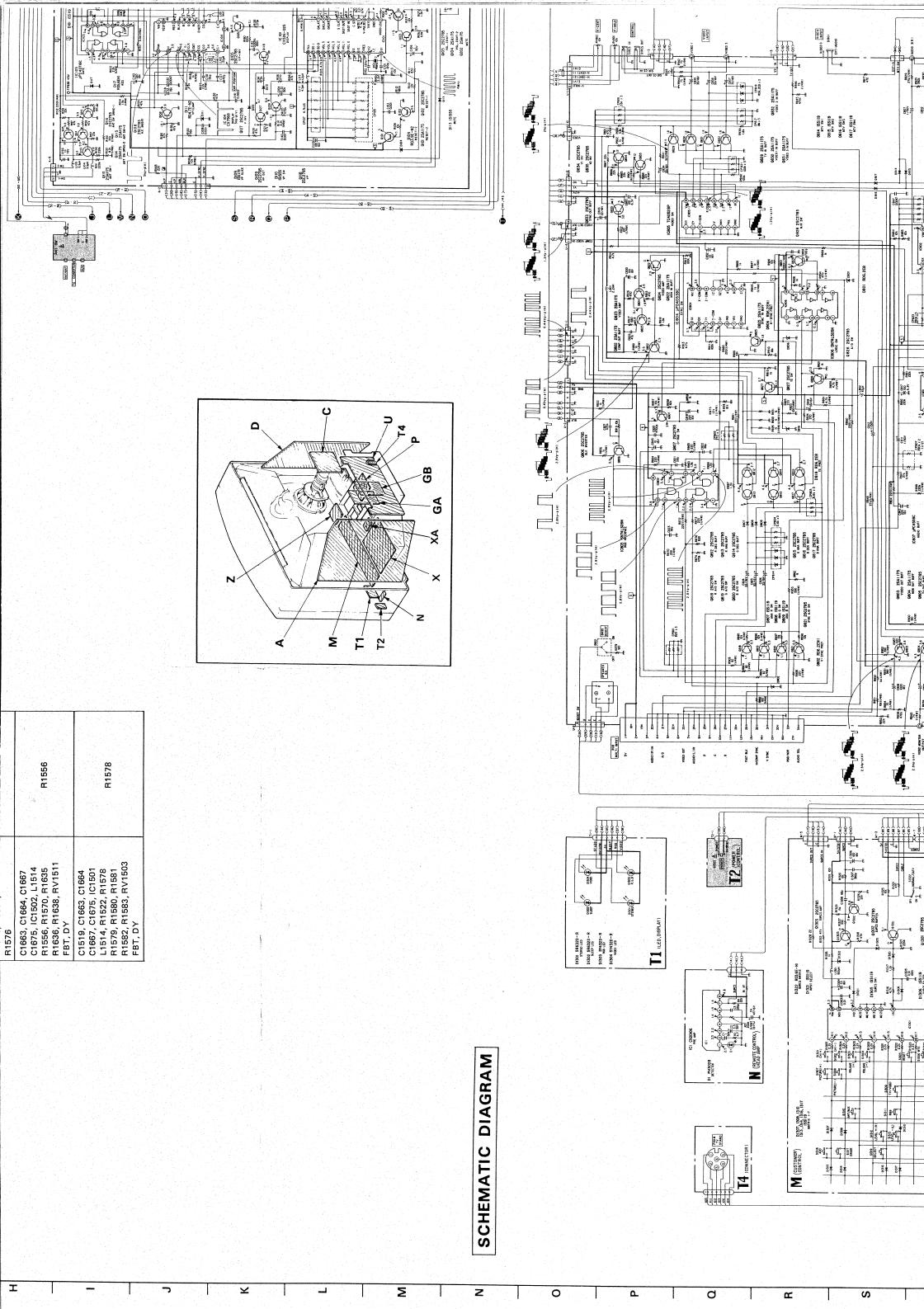


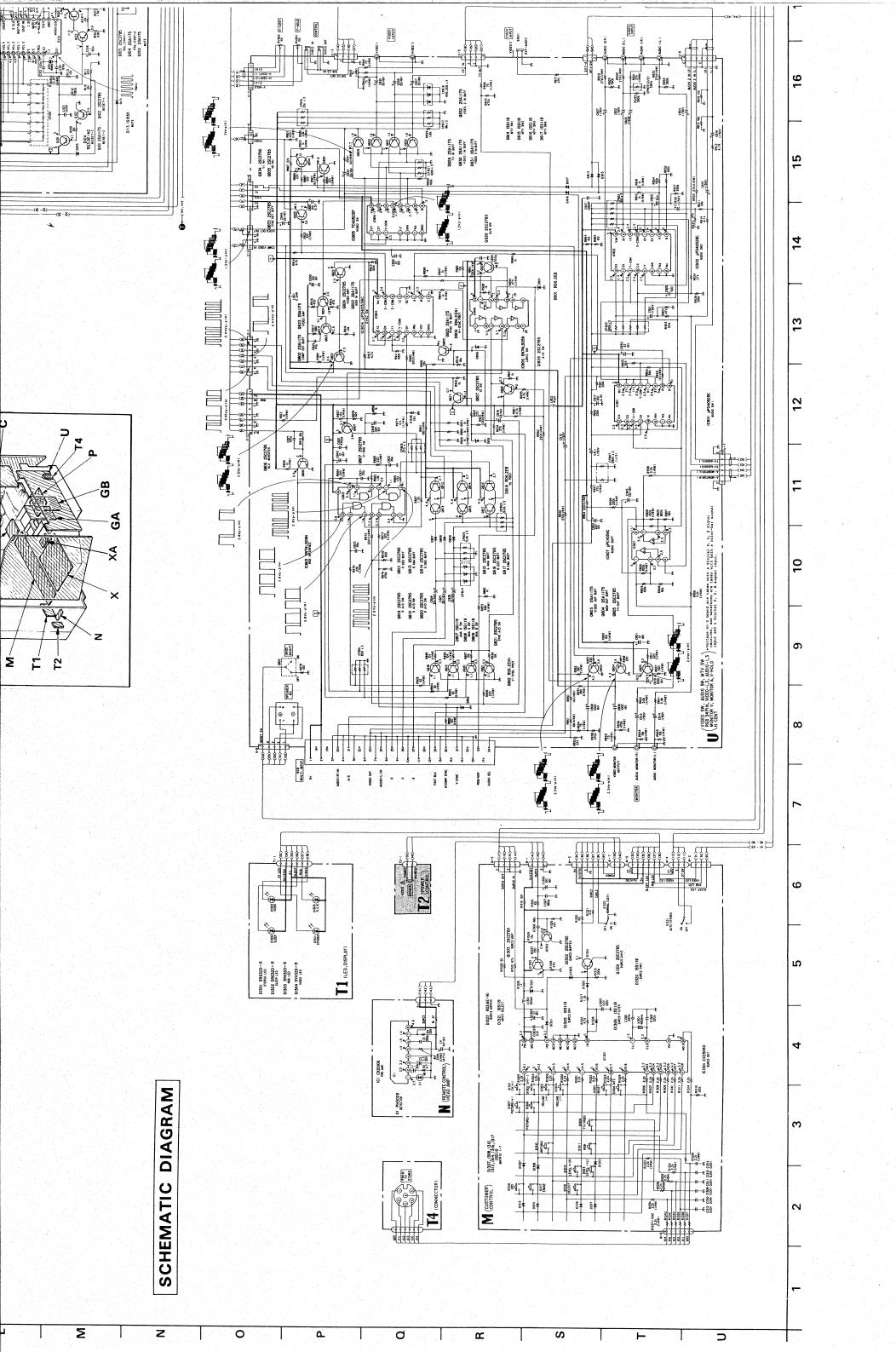
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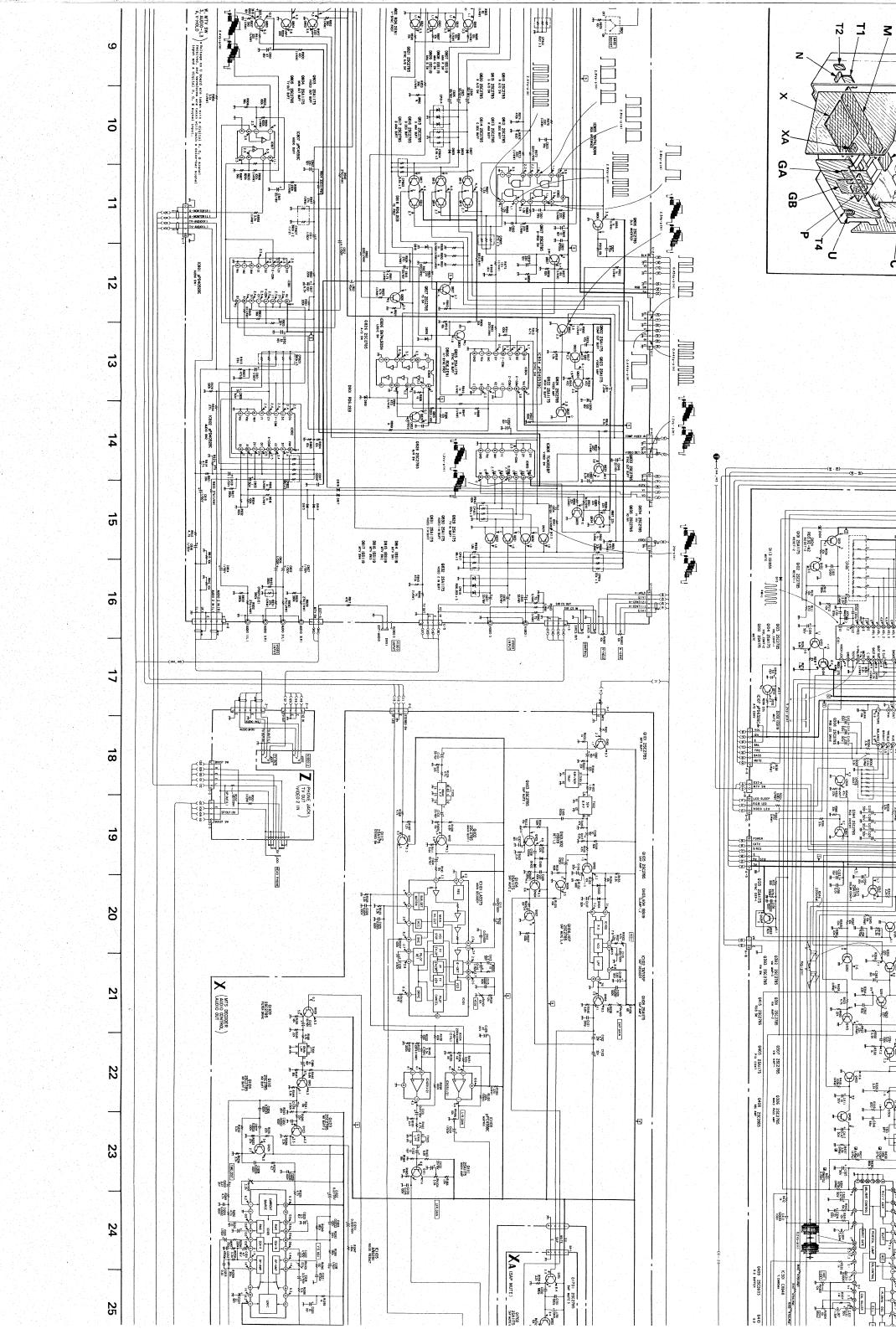
25C2785 H.P. INVERT

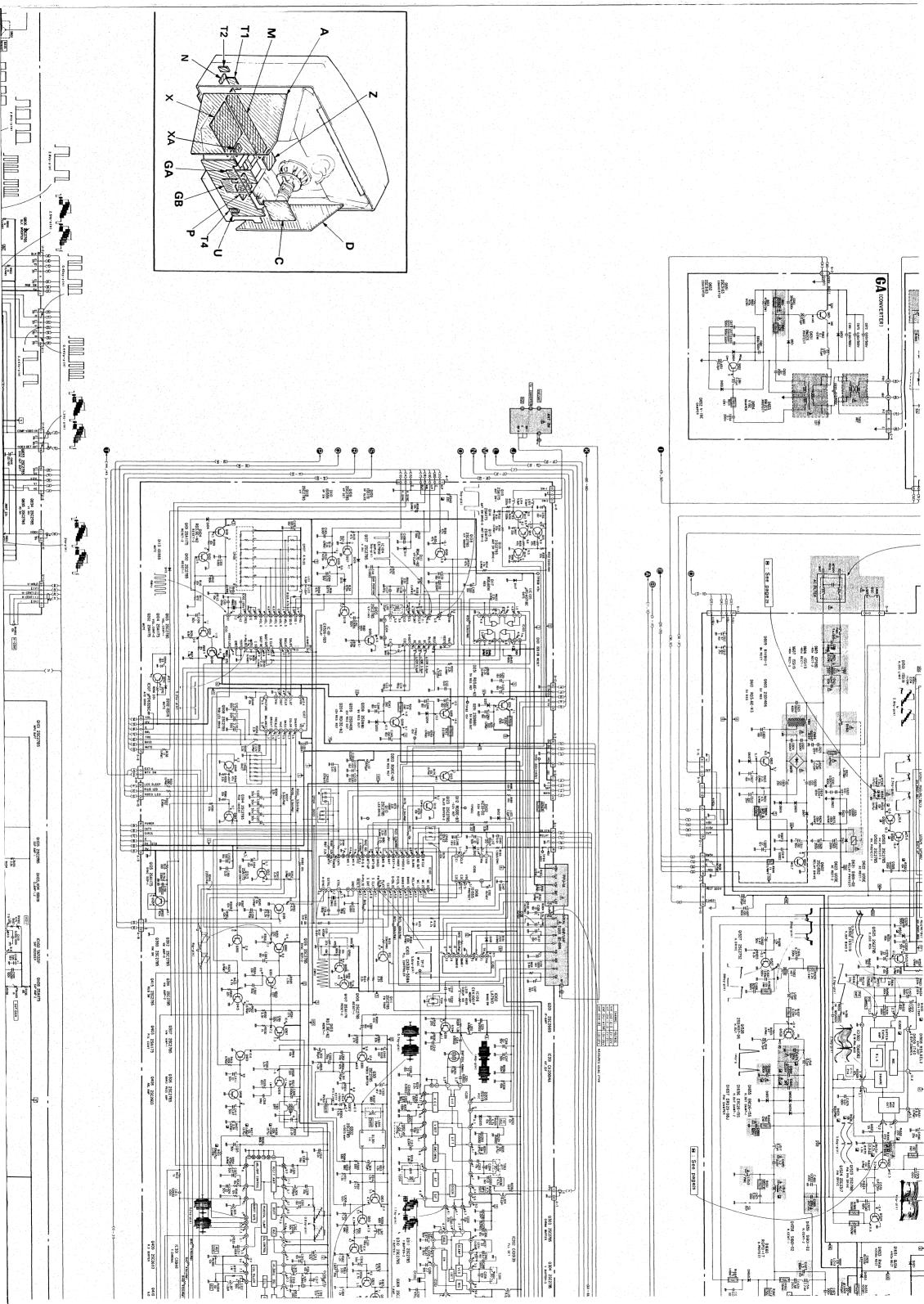
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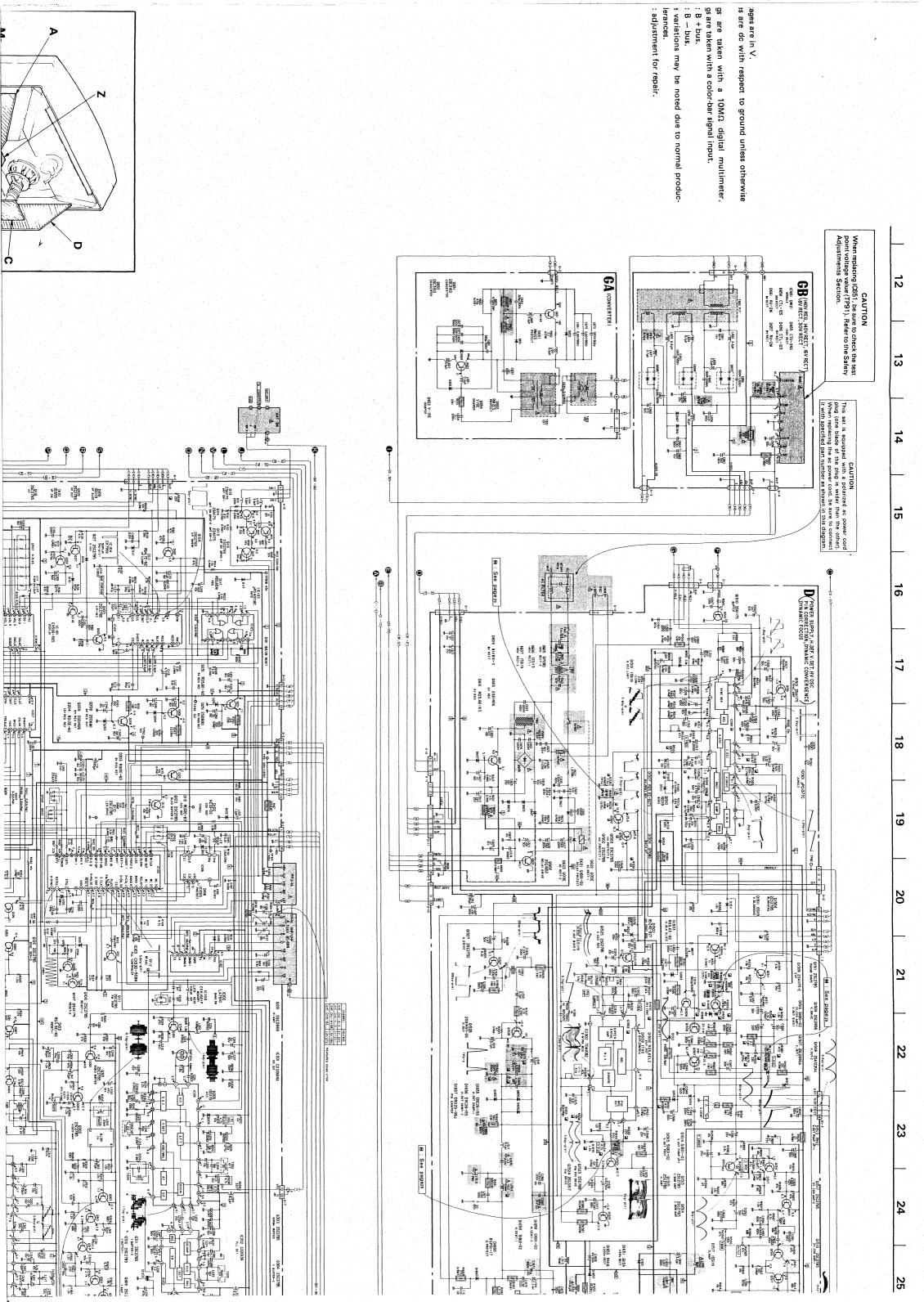
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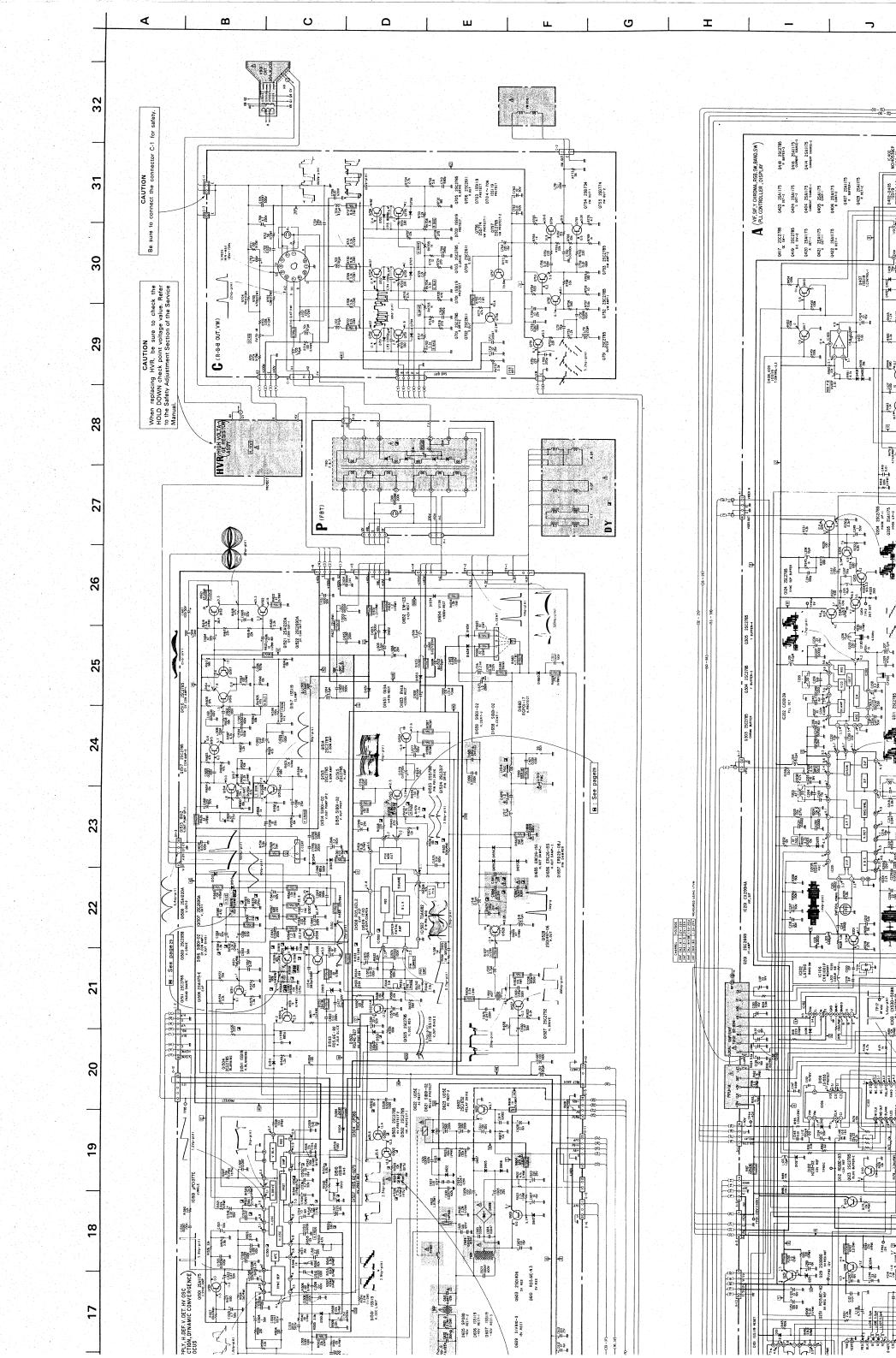


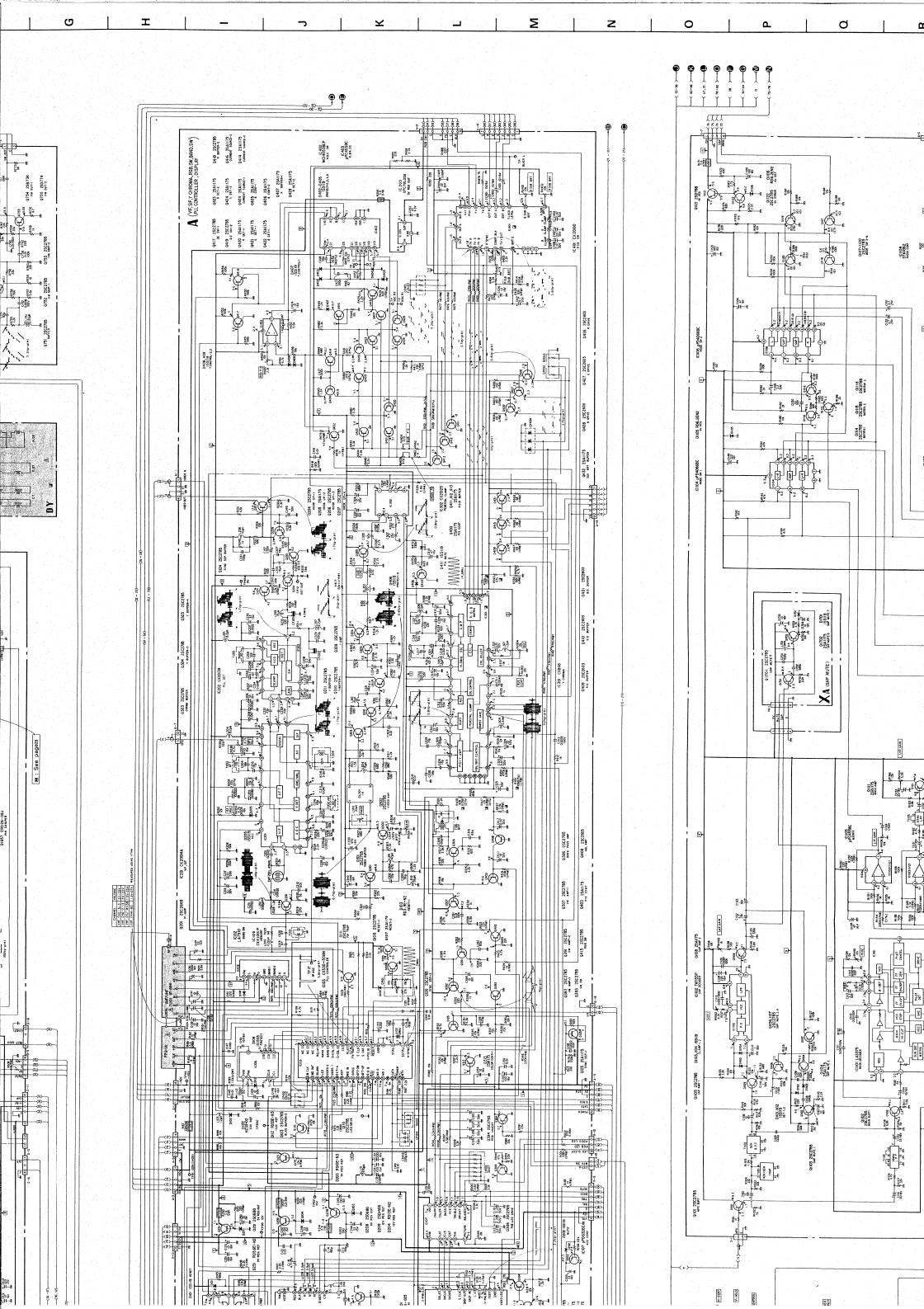


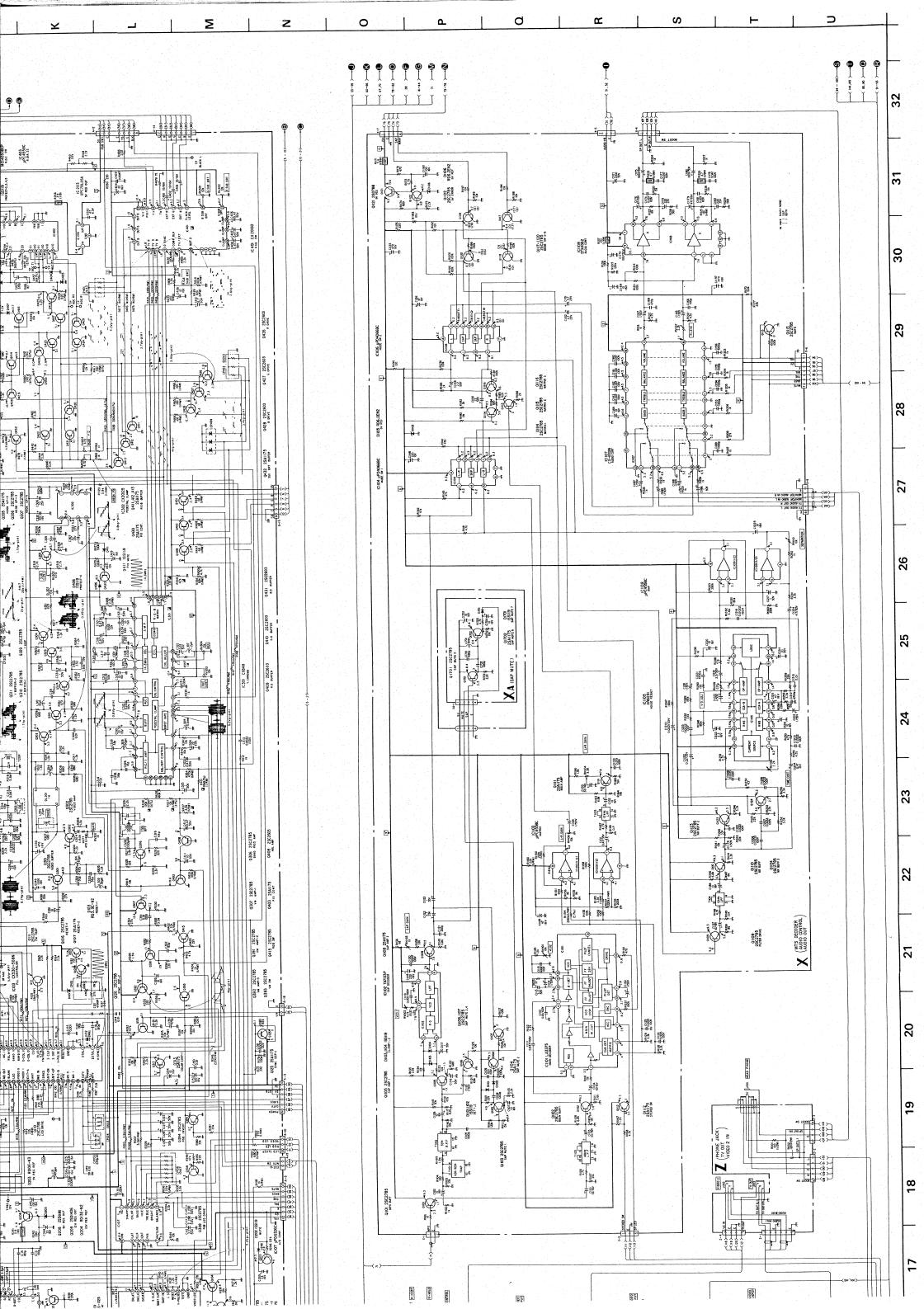


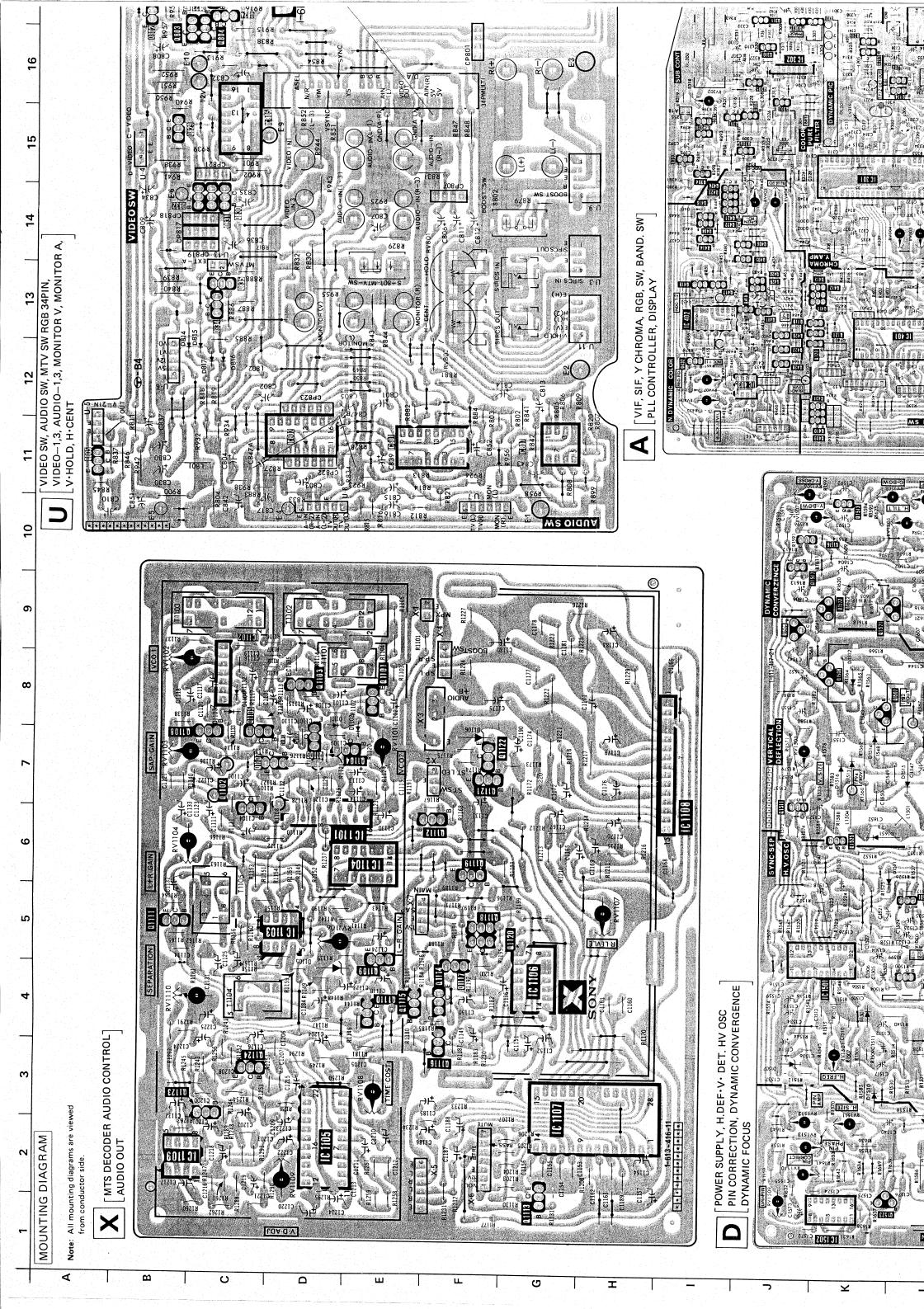


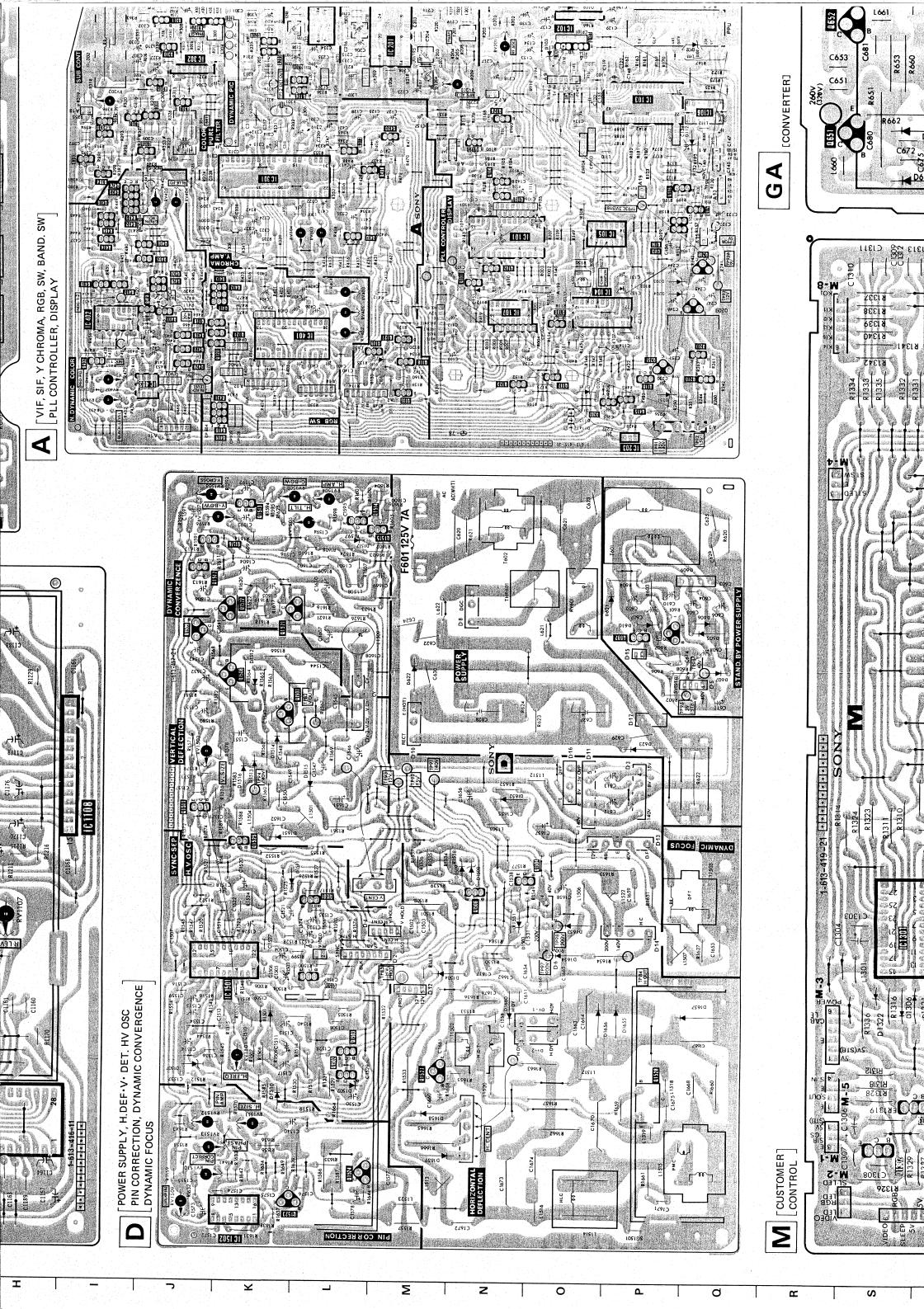


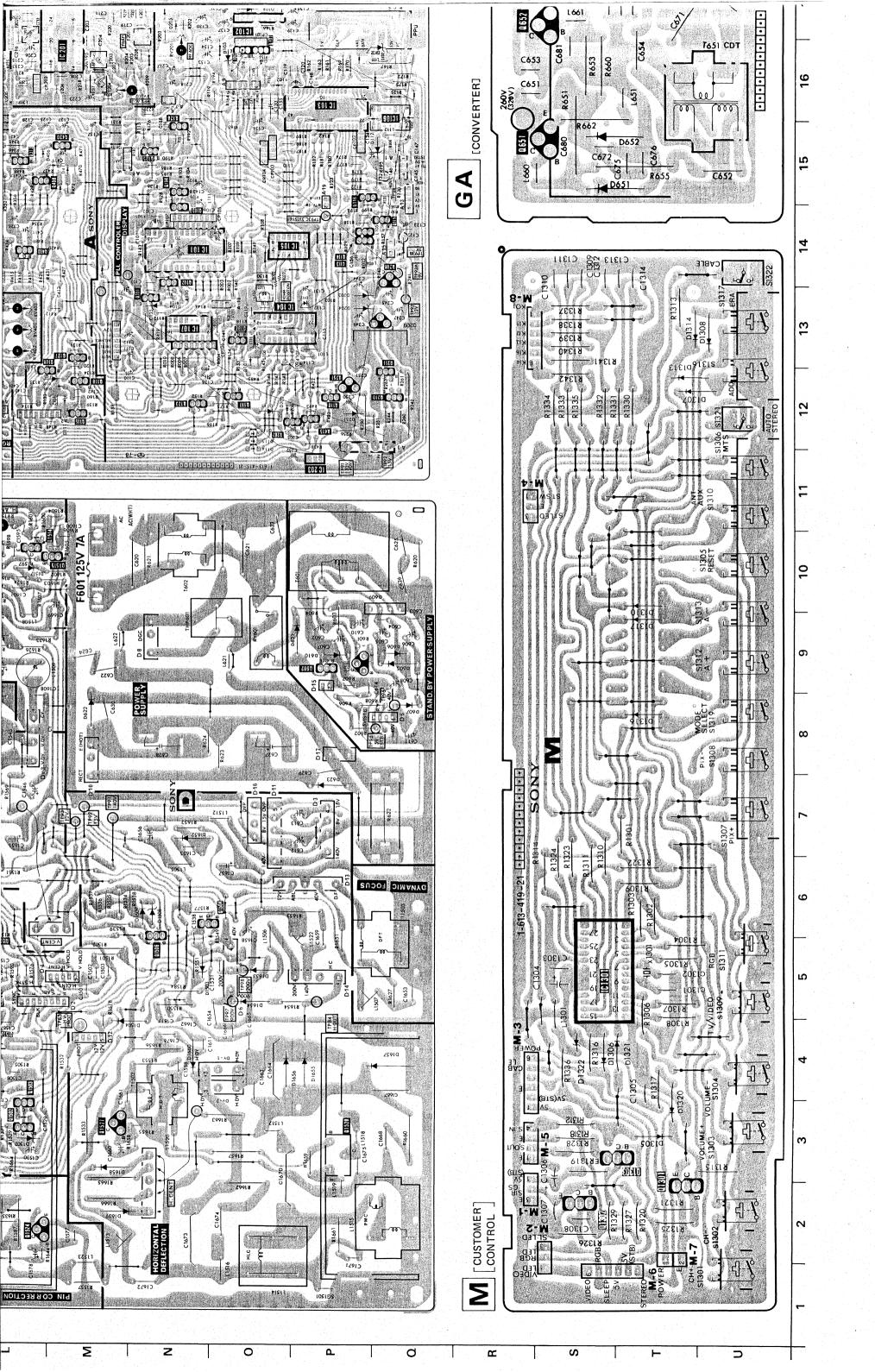


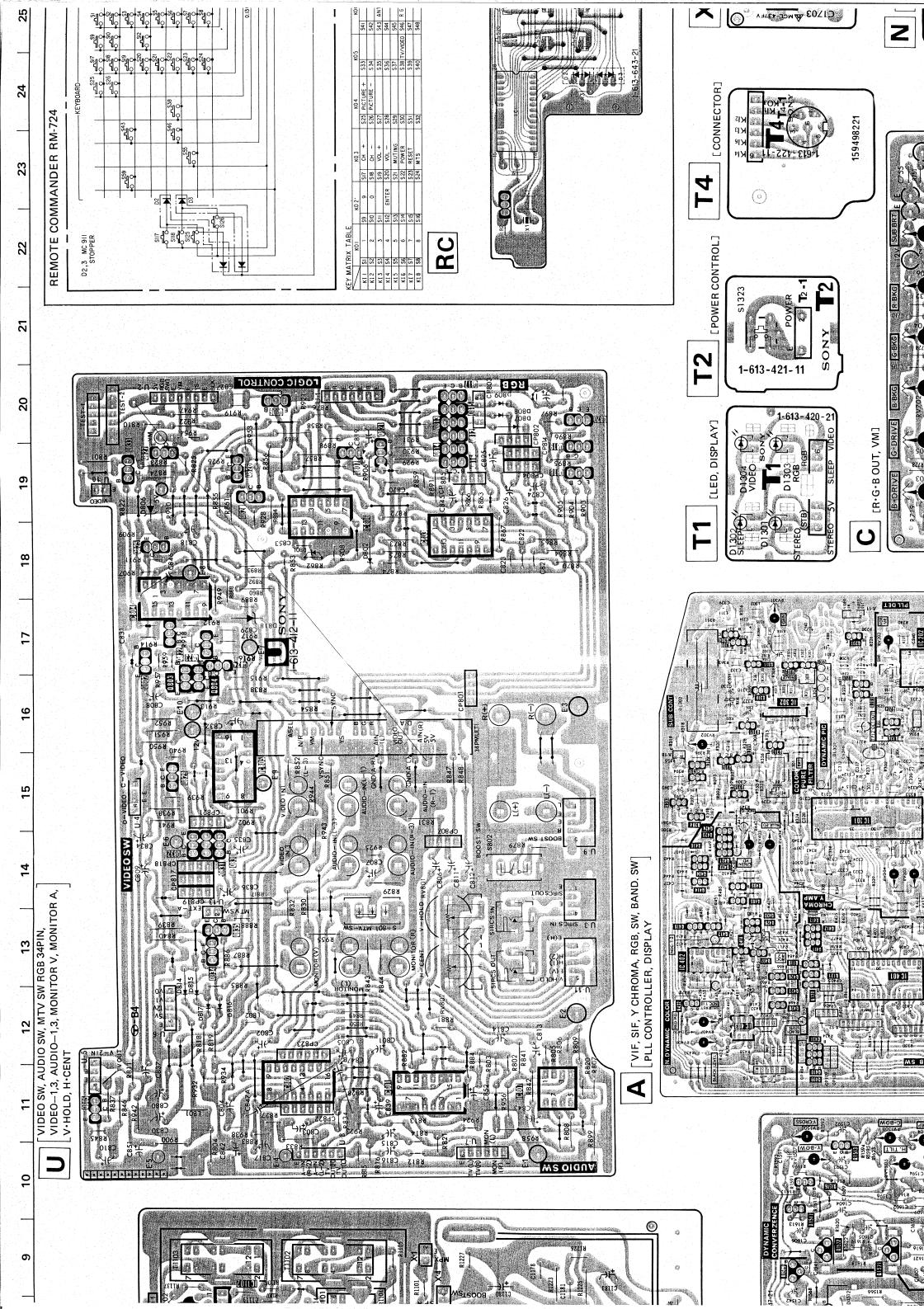


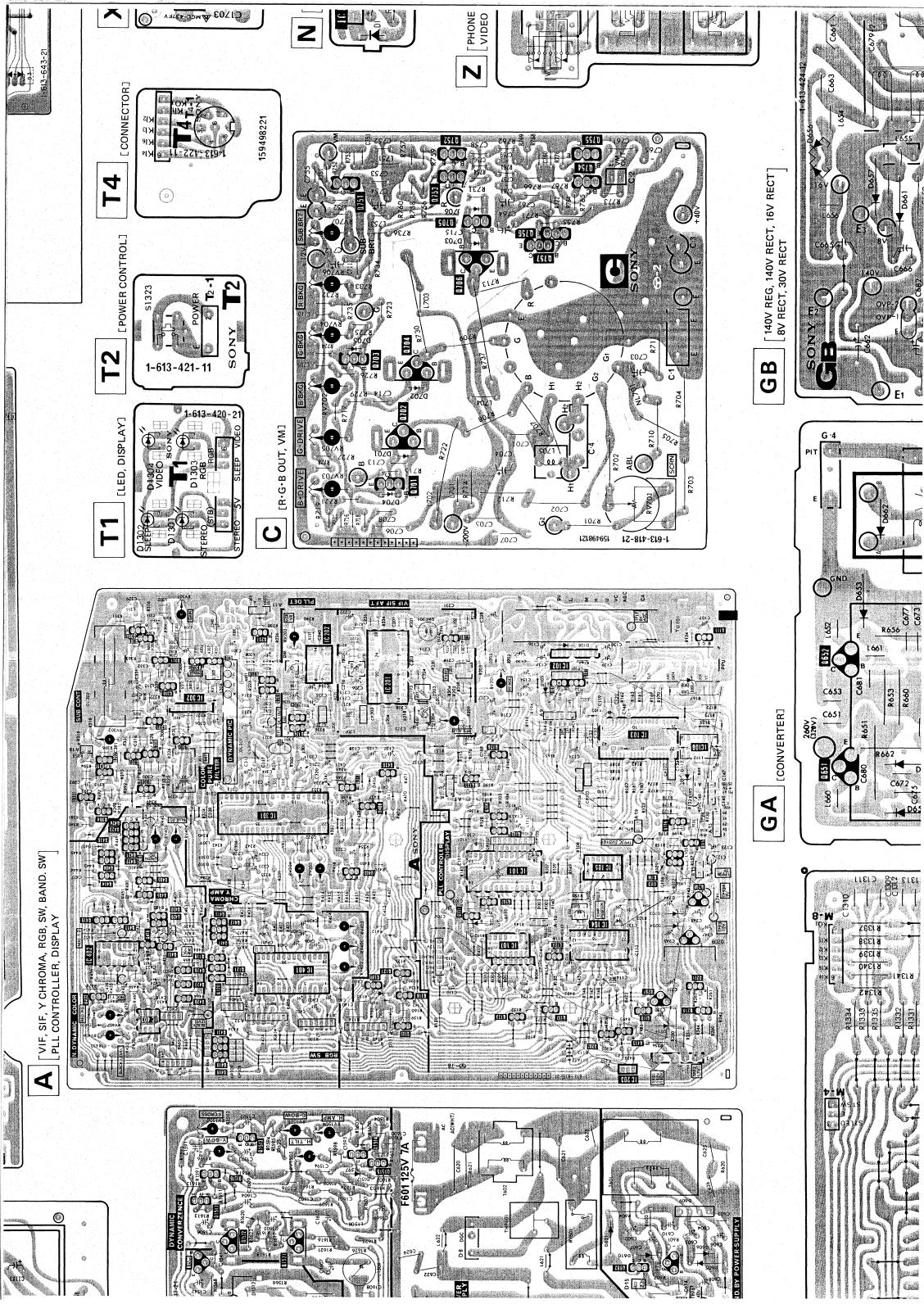


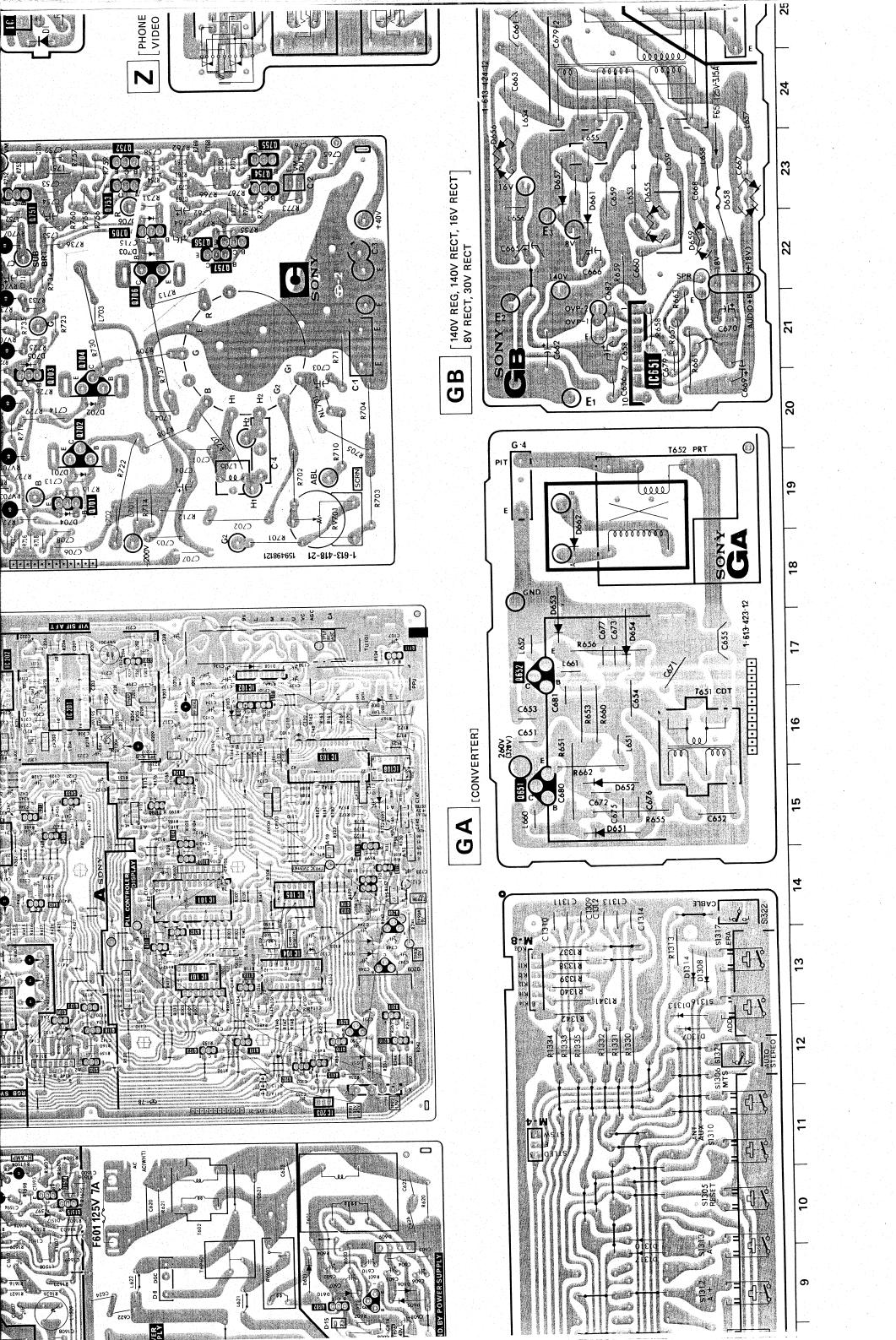


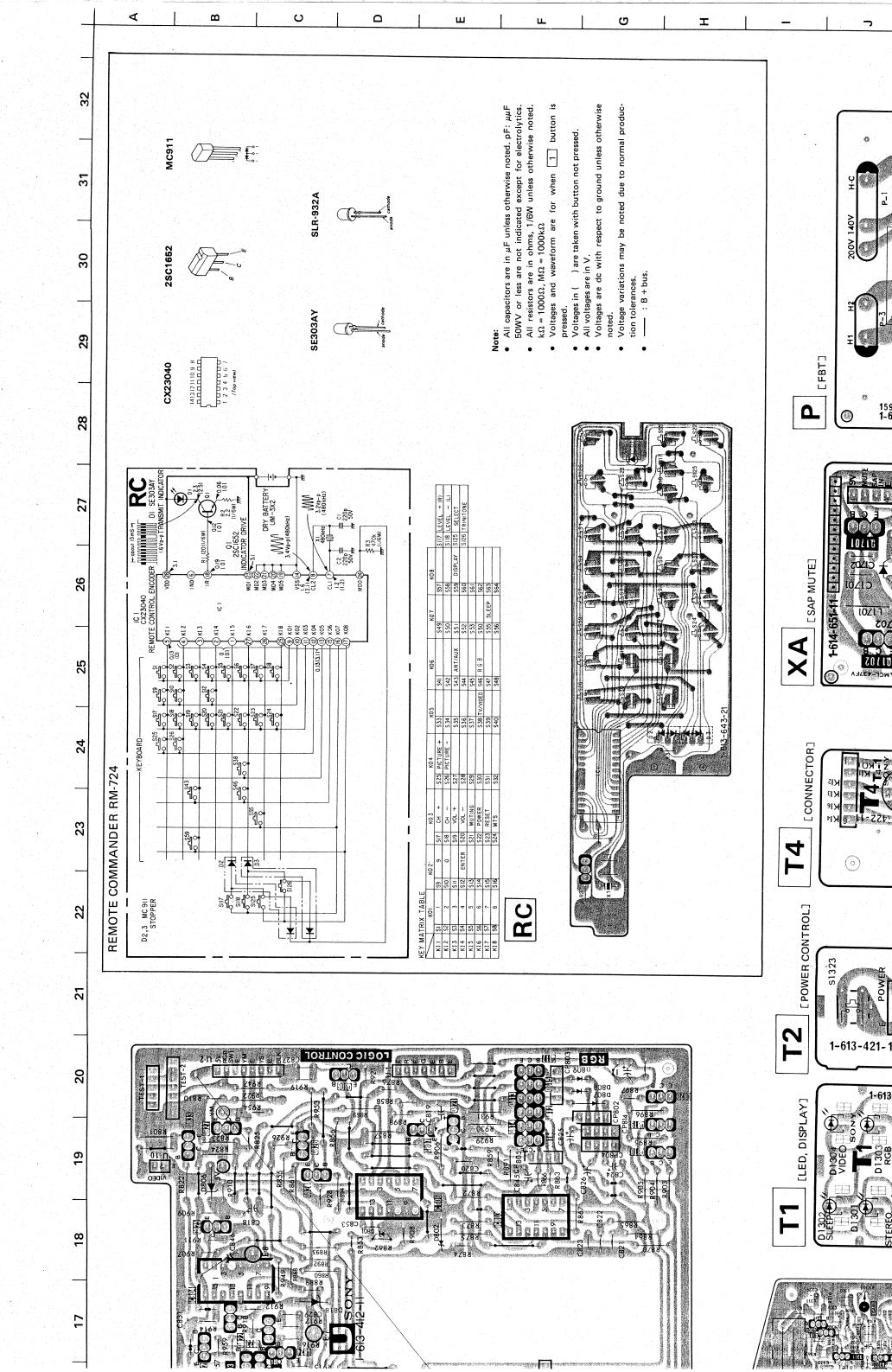












2343817 MC14053BP TC4053BP TDA1082 µPD4052BC 159498011 1-613-414-11 A7910 **Q** DM-21 ANTRLOS NJM78LOSA CX20014A CX20100 CX20125 CX526-025 REMOTE CONTROL HEAD AMP PHONE JACK TV OUT Z [CONNECTOR] 159498221 [ 140V REG, 140V RECT, 16V RECT] [ 8V RECT, 30V RECT **T4** [POWER CONTROL] B BKG S G SO 8 1-613-421-11 U Ξ 1-613-420-21 DISPLAY] [R-G-B OUT, VM] \$021 [LED, TEREO SY C205 5075 1-613-418-21 159498121 TEA HIS HIV

[FBT]

